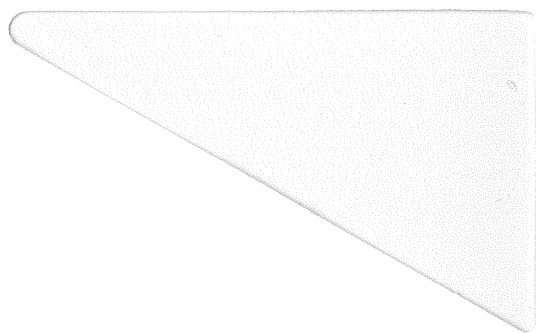


NORTEL NORSTAR





Norstar Programming Overlay

Heading

Show

Back

Next

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Norstar Programming Overlay

Heading

Show

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Norstar Programming Overlay

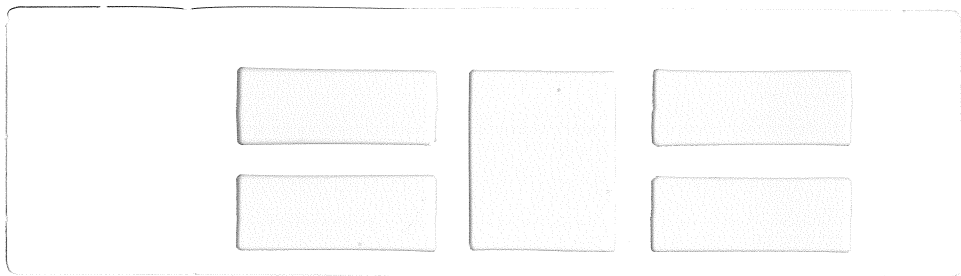
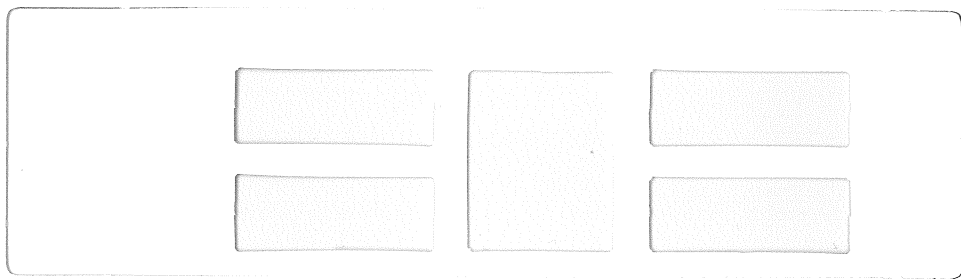
Heading

Show

Back

Next

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Compact ICS 4.0 System Coordinator Guide

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Table of Contents

Getting started with Norstar 1

- Using this guide 1
 - Understanding programming 1
 - Before you start 2
 - What you'll need to do programming 3
 - Using Buttons 3
 - Using the buttons under the display 5
 - The programming overlay 6
 - A map for working in programming 7
 - Starting and ending a session 11
 - Ending a session 11
-

Frequently used programming operations 13

- Changing the time and date on the display 13
 - Adding or changing a system speed dial 15
 - Changing the name of a telephone 18
 - Changing the name of a line 20
 - Making changes to Call Forward No Answer 21
 - Making changes to Call Forward on Busy 23
 - Making Changes to Do Not Disturb on Busy 24
 - What would you like to do next? 26
-

Answering calls 27

- Answering incoming calls with Hunt Groups 27
- Answering an incoming call 27
 - Line buttons 28
 - What line indicators mean 28
 - Rings you may hear 28
- Answering calls at a prime telephone 29
- Using a central answering position (CAP) module 29
 - Customizing your CAP module 30
 - Monitoring telephones with the CAP module 31
- Release button 31
- Hearing aid compatibility 31

Viewing information about a call on the display	32
Using Call Information for a particular call	32
Displaying Call Information before or after answering	33
Displaying Call Information for a call on hold	33
Making Call Display information appear automatically at a telephone	34
Changing what information is shown first about a call	34
Picking up a call ringing at another telephone	35
Answering any ringing telephone using Directed Pickup	35
Answering any ringing telephone using Group Pickup	36
Changing a telephone's pickup group	36
Trunk Answer	37
Answering a call using Trunk Answer	38
Answer buttons	38
Creating a Conference Call	39
Disconnecting one party	40
Independently holding two calls	41
Putting a conference on hold	41
Splitting a conference	41
Removing yourself from a conference	42
Listening to a call as a group	43
Canceling Group Listening	43
Using Handsfree/Mute	43
Answering calls without lifting the receiver	44
Making calls without lifting the receiver	44
Muting Handsfree	44
Changing a regular call to handsfree	44
Changing a handsfree to a regular call	45
Using Handsfree	45
Changing Handsfree for a telephone	46
Changing Handsfree Answerback for a telephone	47
Turning Privacy on or off for a call	48
Creating a conference by releasing privacy	48
Making a call private	48
Checking call length using Call Duration Timer	49
Disconnecting by accident	49

Making calls 51

- Choosing a line using a line button 53
- Line pools 54
 - Using a line pool to make a call 54
 - Programming a memory button with a line pool feature code 55
- Making calls from an ISDN terminal 55
- Changing how you dial your calls 55
 - Using Standard Dial 56
 - Using Automatic Dial 56
 - Using Pre-dial 56
- When the internal number you have called is busy 57
 - Priority Call 57
 - Making a priority call 57
 - Giving a telephone the ability to make priority calls 57
 - Using Ring Again 59
 - Turning on Ring Again 59
 - Canceling Ring Again 59

Auto Attendant 61

- System Answer 61
- Custom Call Routing (CCR) 62
- CCR groups 63
- Direct extension dialing 63
- Customizing System Answer and CCR 64
- Turning System Answer on or off 65
- Turning CCR on or off 66
- Choosing the attendant telephone 66
- Changing the language used by System Answer and CCR 67
- Setting the number of rings before System Answer answers a call 68
- Setting the number of rings before a caller hears the CCR greeting 68
- Adding or removing telephones from a group used with CCR 69
- Using the pre-recorded greetings 70
- Using customized greetings for System Answer and CCR 71
- Time available for customized greetings 72
- Recording customized greetings for System Answer and CCR 73
- Programming or changing CCR destinations 76

Testing your custom System Answer and CCR 76

Time savers for making calls 77

- Storing a number on a memory button for Autodial 77
 - Adding an autodial button 77
 - Choosing a line for Autodial 78
 - Using intercom as the line for Autodial 78
 - Using Last Number Redial 80
 - Preventing a telephone from using Last Number Redial 80
 - Using Speed Dial 81
 - Making a speed dial call 82
 - Changing and adding System Speed Dials 82
 - Adding or changing User Speed Dial 82
 - Using Saved Number Redial 84
 - Saving a number 84
 - Dialing a saved number 84
 - Preventing a telephone from using Saved Number Redial 84
-

Handling many calls at once 87

- Using Hold 87
 - Retrieving a held call 87
 - Holding automatically 87
 - Listening on hold 87
 - Holding a call exclusively 88
 - Using Call Queuing 88
-

Transferring calls 89

- Using the transfer feature 89
 - Transferring a call 89
 - Transferring external calls 90
 - Canceling a transfer 91
- Using Camp-on 92
- Parking a call 94
 - Retrieving a parked call 94
 - Using Call Park 94
- Using Callback 96

Forwarding your calls 97

- Forwarding your calls to another Norstar telephone 97
 - Canceling Call Forward 97
 - Using Call Forward at your telephone 97
 - Overriding Call Forward 98
 - Changing the automatic Call Forward settings for a telephone 98
 - Changing Forward no answer 98
 - Changing the delay before a call is forwarded 99
 - Forward on busy 99
 - DND on Busy 100
 - Call Forward and Voice Mail 101
- Line Redirection 101
 - Turning on Line Redirection 102
 - Canceling Line Redirection 103
 - Allowing a telephone to redirect calls 103
 - Turning the redirect ring for a telephone on or off 104
 - How Line Redirection is different from Call Forward 106
 - Using Line Redirection 106

Communicating in the office 109

- Paging 109
 - Making a page announcement 109
 - Activating and deactivating the ability to page 110
 - Creating page zones 110
 - Using Page with external paging equipment 112
- Sending messages using the display 112
 - Sending a message 112
 - Canceling a message you have sent 113
 - Viewing your messages 113
 - Replying to a message 114
 - Removing items from your message list 114
 - Viewing messages you have sent 115
- Using Voice Call 116
 - Making a Voice Call 117
 - Muting Voice Call tones 117
 - Answering a Voice Call without touching your telephone 117
 - Preventing Voice Calls to your telephone using Voice Call Deny 117
 - Canceling Voice Call Deny 117

Tracking your incoming calls 119

Using Call Log 119

- Call Log options 120
- Logging a call manually 120
- Deleting old log items 121
- Viewing your Call Log 121
- Viewing a Call Log item 122
- Erasing log items 122
- Making a call using Call Log 122
- Creating a password to your Call Log 123
- Changing your Call Log password 123
- Deleting an assigned password 124
- Programming a telephone to log calls automatically 124

Using Voice mail 126

Customizing your telephone 127

- Finding out what a button does using Button Inquiry 127
- Making the display darker or lighter using Contrast adjustment 128
- Changing the language on the display 128
 - English 128
 - French 128
 - Spanish 128
- Programming a feature code onto a memory button 129
 - Programming feature buttons 129
 - Erasing a feature button 129
- Applying button cap labels 131
 - Identifying the telephones 131
 - Norstar default button assignments 132
- Moving line buttons 135
- Changing the type of ring 136
- Adjusting the Ring volume 137
- Hiding the message or calls indication 137
 - Restoring the messages and calls indication 137

User Preferences 139

- Using User Preferences 139
- Changing button programming 140
- Changing User Speed Dial 142
- Changing Call Log options 143

Changing how calls are dialed	143
Changing the language used on the display	143
Making the display lighter or darker	144
Changing the telephone's ring	144

Programming Hunt Groups 147

Adding or removing members from a group	149
Moving members of a group	150
Assigning or unassigning lines to a group	151
Setting the distribution mode	152
Setting the hunt delay	153
Programming busy line setting	154
Programming the queue time-out	155
Programming the overflow set	156
Setting the name	157

Telephone features 159

Installing Norstar telephones	159
Naming a telephone or a line	161
Moving telephones	161
Stopping calls from ringing at your telephone using Do Not Disturb (DND)	162
Stopping calls	162
Refusing to answer a call	162
Canceling Do Not Disturb	162
Using Do Not Disturb	162
Using Background Music	163
Turning Background Music off	163
Using the device attached to the internal analog terminal adapter	164
Using a data communication device with the I-ATA	170
Turning off tones that can interfere with data transmissions	170
Programming answering machines or modems to answer calls automatically	170
Using the I-ATA with modems and fax machines	170
Troubleshooting for the device attached to the I-ATA	171

ISDN 173

ISDN BRI 173

Line access from an ISDN terminal 174

ISDN BRI features 174

Network Name Display for BRI 174

Name and number blocking for BRI 175

Service provider features 175

Call Forward 176

Canceling Call Forward 176

Calling the number your calls are forwarded to 176

Automatic Call Back 177

Automatic Recall 177

ISDN BRI terminals 177

ISDN applications 177

Videoconferencing and video telephony 177

Desktop conferencing 178

File transfer 178

Telecommuting 178

Group 4 fax 178

Remote LAN access 178

Leased line backup 178

LAN to LAN bridging 178

Internet and database access 179

Using System features 181

Using alternate or scheduled services 181

Preventing certain calls from being made 181

Making additional telephones ring 181

Changing the lines used by outgoing calls 181

Turning Services on and off 182

An example of how to turn on a Service manually 183

Turning Services on and off using feature codes 184

Viewing the active Services from a two-line display telephone
185

Viewing the active Services from a one-line display telephone
185

Using passwords 187

Using a Basic password 188

Changing passwords 189

Clearing a Call Log password 190

Using special telephones	190
Direct-dial	190
Changing the direct-dial telephone assignments	191
Hotline	192
Bypassing a Hotline	192
Making a telephone a hotline telephone	192
Control telephone	194
Using Set lock	194
Changing Set Lock programming for a telephone	195
Using an auxiliary ringer	195
Turning the auxiliary ringer for a telephone on or off	195
Using Host System dialing signals	196
Link	196
Preventing a telephone from using Link	196
Pause	197
Long Tones	198
Programmed Release	198
Run/Stop	199
Wait for Dial Tone	199
Using pulse dialing for a call	200
Using your Norstar system from an external location	200
Controlling access to your Norstar system	201
Direct inward system access (DISA)	201
Class of Service (COS)	201
Maintaining security	202
Accessing Norstar remotely over the public network	202
Tones	203
Using Class of Service (COS) passwords	203
Changing your Class of Service	204

General System features 205

Disconnect supervision	205
Hunt Groups	205
Internal numbers	205
Line assignment	206
Target line	206
Line pools	207
Overflow call routing	207
M7100 telephone	207

Memory buttons 208
One-line display 208
Prime line 209
Private lines 209
Volume bar 209
Wall mounting 209

Troubleshooting 211

Using the alarm telephone 211
Reporting and recording alarm codes 211
Testing the telephone 211
 Testing the telephone display 212
 Testing the telephone buttons 213
 Testing the speaker in the telephone handset 213
 Testing the telephone headset 213
 Testing the telephone speaker 214
 Testing the power supply to a telephone 214

Common feature displays 215

Index 221



Getting started with Norstar

Your Norstar digital key system has many powerful features that can be customized to keep up with changes in your workplace.



Using this guide

The person who is responsible for adding or moving telephones or making changes to the system is called the system coordinator. This guide is designed to give the system coordinator all the information he or she needs to carry out these kinds of jobs.

The first section contains step-by-step instructions on changing the time and date, deciding how many rings it takes before a call is forwarded and other day-to-day programming. Once you understand these basic steps, you can move on to the many other features described in the second section of the guide, and refer to the first section only from time to time.

You can look at the contents page for an overview of the features that are available, or check the index for specific features or messages displayed on your telephone.



Understanding programming

When your system is installed, your installer or customer service representative programs it to work with your telephone lines, with your private network, if you have one, and with optional equipment. They customize the system for your office. All programming is recorded in the *Norstar Programming Record*.

You may want to further customize your system. For example, you can change how some features work, or adapt the system to changes in your office. Programming allows you to change

settings that probably need to be updated regularly because of staff turnover or new business contacts. You can also assign features and program buttons on individual telephones.

There are four ways to customize and maintain your Norstar system:

- Initial programming is done for you by your installer or customer service representative. It deals mostly with how the system interacts with lines, telephones, and other equipment.
- Your programming as a system coordinator changes how features work for the system, as needed. It requires a system coordinator password.
- A basic programming password is available to allow individuals other than the system coordinator to make changes without giving access to sensitive programming capabilities.
- Personal programming is available to anyone through the Feature button on their Norstar telephone. It allows individuals to change how their telephone works to suit themselves.



Before you start

Before you begin programming, plan what changes you want to make. Record the changes in the *Norstar Programming Record* so that you have the information at hand. For example, if you are going to program system speed dial numbers, fill out the page in the *Norstar Programming Record* so that you have all the numbers and codes handy once you start programming.

What you'll need to do programming

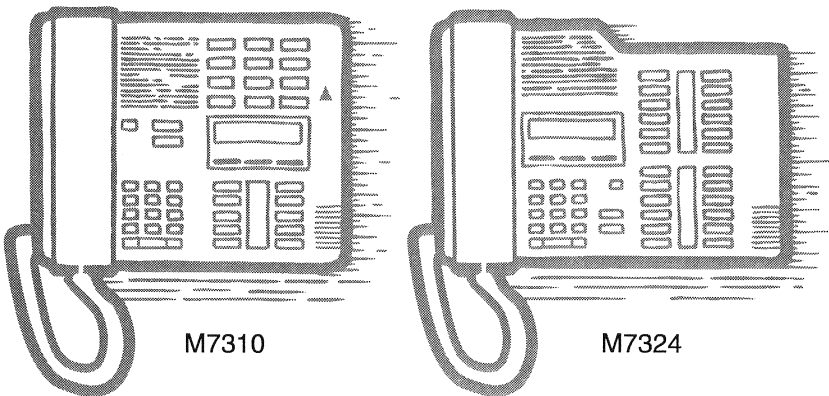
Programming is done using a telephone that can show two lines of information on its display. Examples of telephones with two-line displays are shown on page 3.

You need a programming overlay to show which buttons to press when you are doing programming. See “The programming overlay” on page 6.

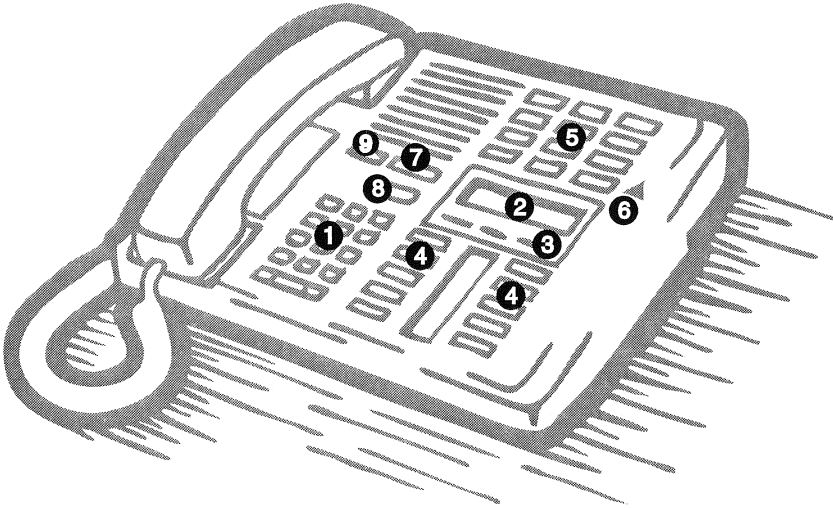
When you use a telephone for programming, it is taken out of service. This means it is unable to receive or make calls, and the call forward features do not work. Do not use the main reception telephone for programming because you may lose incoming calls.

Using Buttons

The two-line telephone you use for everyday calling is used for changes and maintenance. Examples of telephones with two-line displays are shown in the illustration.



The next illustration numbers the buttons that are used for both day-to-day communication and programming on the M7310.



❶ Dial pad	Used for dialing numbers when you are making calls. It's also used for entering numbers and letters when you're programming.
❷ Display	Shows instructions for everyday calling as well as for programming.
❸ Display buttons	Have a variety of uses. The current use is shown on the display above each button.
❹ Memory buttons	Dial a number or feature code stored on the button.
❺ Dual memory buttons	Can store two numbers or feature codes (used with the shift button).
❻ Shift button	Press the shift button before a dual memory button to activate the second number or feature code stored on a dual memory button.
❼ Feature button	Allows you to enter a feature code while using or programming the telephone.
❽ Hold button	Puts an active call on hold.
❾ Release button	Hangs up an active call or ends programming.

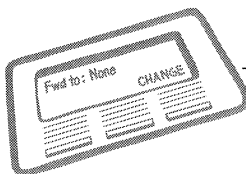
The M7324 is different from the M7310 in two ways: it does not have dual memory buttons (item 5) or a shift button (item 6).



Using the buttons under the display

The three display buttons are used both for telephone features and programming, but what each button does depends on what the display shows. Some display instructions that you may see when making changes on the system are OK, CHANGE or COPY. In this guide, display button instructions are underlined.

Display buttons

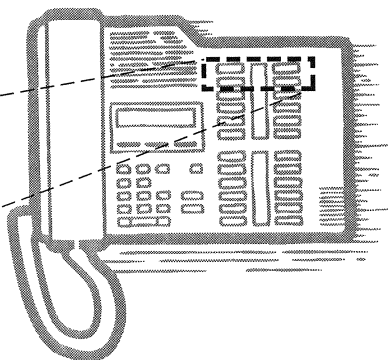
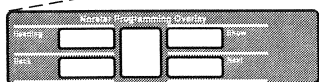
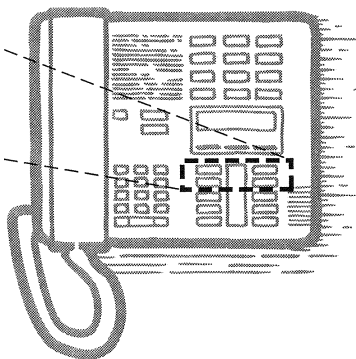
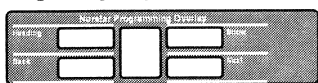


display button

The programming overlay

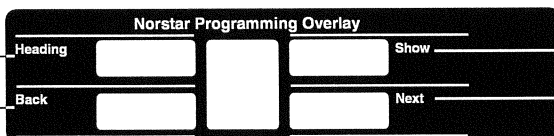
When you begin programming, a group of buttons on the telephone become the buttons for moving through programming headings and settings. The programming overlay is a paper cutout (found at the front of this guide) that shows the directions the four buttons take you when programming.

Placing the programming overlay



Shows you the heading for the current level

Moves you one item back at the current level



Shows you the first setting within the level

Moves you one item forward at the current level

Programming buttons are active or inactive at different stages of programming. A button is active (meaning you can use that option), when the indicator next to it is lit (◀ or ▶).



A map for working in programming

The programming maps on page 9 and page 10 show the headings you'll see when you move through the display menu after pressing * * C O N F I G and entering the password (the default password is or). The maps show you the choices under each menu heading.

A Basic password can be used with a limited number of feature codes, including * * T I M E and the codes for turning call services on and off. For more information, see "Using passwords" on page 187.

Terminals&Sets

Terminals and sets - Customize the many features used by telephones. You can change where a call is forwarded, give a telephone a name, or allow certain features to be used at a telephone. You can change the button programming on any telephone on the system.

Lines

Lines - Program names for each line.

Services

Services - Turn services on or off. These are Ringing service, (often called night service) that allows additional telephones to ring, Restriction service that blocks certain kinds of calls and Routing Service that decides what lines a call uses.

Sys speed dial

System speed dial - Program up to 70 different telephone numbers so that people in your office can dial them with a two-digit code.

Passwords

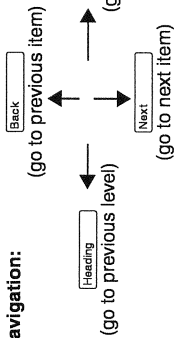
Passwords - Change the password you use for programming, or erase a Call log password.

Time&Date

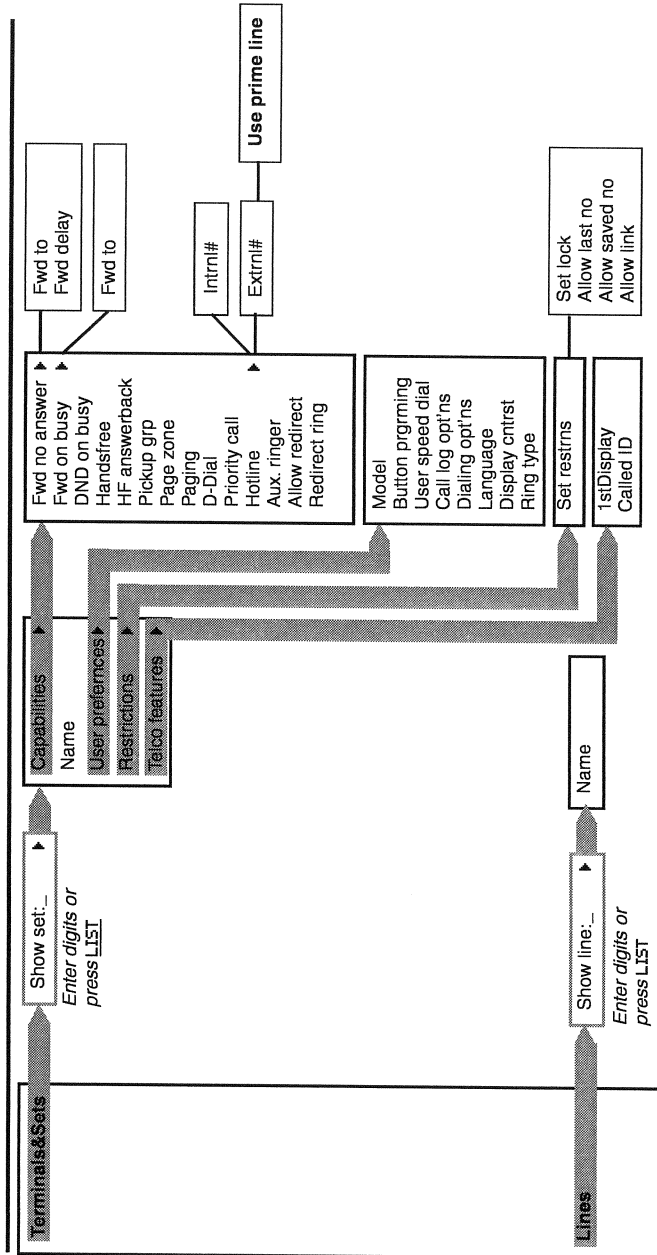
Time and date - Change the time, date, or both.

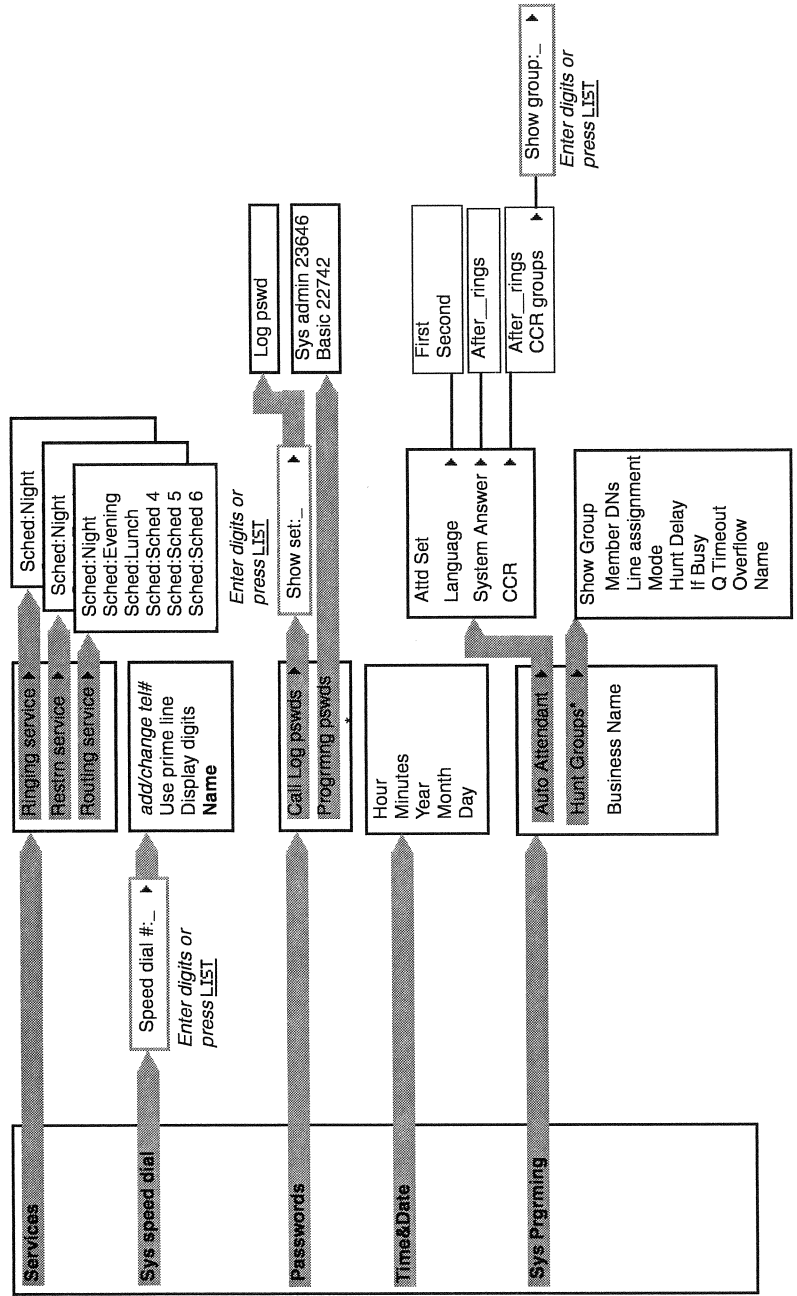
System Prgrming

System programming - Change the settings for the System Answer that handles the overflow when the attendant set is busy, and Custom Call Routing (CCR) that gives a caller a choice of where to direct their call.

Key to Navigation:**Legend:**

Name (grey text) = appears only if needed to complete programming
Enter digits (italic text) = instructions or descriptions
 (grey box) = enter an extension number, line number, or speed dial number
 (black box) = items are in a list





* See "Programming Hunt Groups" on page 147.

Starting and ending a session

As system coordinator the first steps in making any change to the Norstar system are always the same.

Jan 1 12:00PM

Press .

Feature:

Press . It's the same as pressing .

Password:

RETRY

Press). Press RETRY to re-enter the password if it is entered wrong.

Terminals&Sets

The display shows the first of the seven headings available for administration programming.

is the password, unless the password has been changed. Check the *Norstar Programming Record* for the most recent password.

Ending a session

Display digits:Y

CHANGE

Press to end the session.

End of session

After a few seconds, the time and date reappears on the display.

The system goes ahead with any changes you make to programming as soon as you move away from a setting, either by using the navigation buttons or .

You can see if the changes you have made to telephone programming have taken effect by pressing the UPDATE display key. The display shows you how many telephones have not been updated.

Press PHS to see the specific extensions where programming changes have not taken effect yet. Items disappear from the list as they are updated.

Record any changes you make in the *Norstar Programming Record*. If there is a problem with the system, the installer needs to see a history of the changes you have made. Remember to inform people in your office of any changes you have made that affect them. For example, you may change system speed dial codes or change the number of rings before an unanswered telephone is forwarded.

Frequently used programming operations

The following sections highlight the most frequently used programming operations. To consult these or other programming operations, see either the Table of Contents or the Index.

Changing the time and date on the display

Jan 1 12:00PM Press Feature .

Feature:

Press **8463 (which is the same as **TIME).

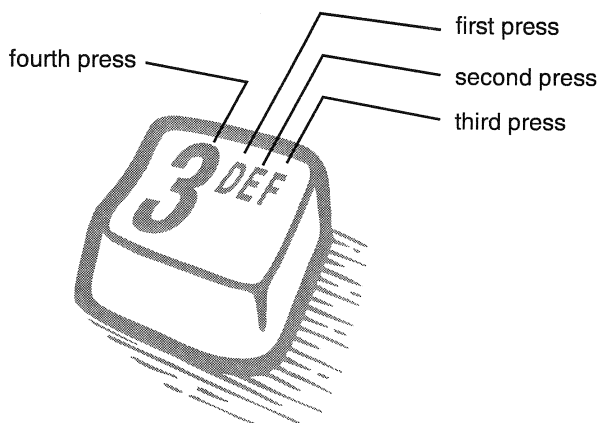
Password:

RETRY

Press 22742 (BASIC) or 23646 (ADMIN)

The passwords can be changed. See "Using passwords" on page 187 for more information.

Entering letters and numbers using the dial pad



In this example, you are changing the time to 1:30 p.m.

Hour:01 Press CHANGE.
NEXT CHANGE

Hour:___ Press the dial pad buttons to enter the hour. Use two
CANCL digits for all hours. The clock on the display shows
either one or two digits.

AM The display prompts you to choose a.m. or p.m.
OK Press CHANGE and OK to select p.m.
 CHANGE

Hour:01 Press NEXT.
NEXT CHANGE

Minutes:00 Press CHANGE.
NEXT CHANGE

Minutes:___ Press the dial pad buttons to enter the minutes.
CANCL

If you are only changing the time and not the date, press  to end your session.

In this example, you are changing the date to July 15, 1998.

Minutes:30 Press NEXT.
NEXT CHANGE

Year:97 Press CHANGE.
NEXT CHANGE

Year:___ Press the dial pad buttons to enter the year.
CANCL

Year:98 Press NEXT.
NEXT CHANGE

Month:01
NEXT CHANGE

Press CHANGE.

Month:___
CANCL

Press the dial pad buttons to enter the month.

Use numbers for the months: 01 is January; 12 is December.

Month:07
NEXT CHANGE

Press NEXT.

Day:01
NEXT CHANGE

Press CHANGE.

Day:___
CANCL

Press the dial pad buttons to enter the day.

Day:15
CANCL

Press  to end your session.

End of session

The clock controls the schedules used for services such as ringing and routing services.

After a power failure, the clock is behind by the length of time power was lost. For example, if the power is out for two minutes, the clock is two minutes behind.



Adding or changing a system speed dial

You program a speed dial on your Norstar so that anyone in your office can dial a frequently used number using a two-digit code.

To change a speed dial that already exists, follow the same steps. The new programming overwrites the previous number and settings.

Begin the programming session

Jan 1 12:00PM Press .

Feature: Press .

Password: Press .

RETRY

Choose a speed dial code

Terminals&Sets▶ Press three times.

Sys Speed Dial▶ Press .

Speed dial #:_ Press .

LIST

You can pick any system speed dial code between 01 and 70.

Speed dial #:01▶ Press .

FIND

Add or change the telephone number

01:No number Press CHANGE.

CHANGE

01:_ Use the dial pad to program the telephone number
CANCEL OK that you want to add. The telephone number can be
up to 24 digits long.

01:nnnnnnnn
CANCL BKSP OK

Your display shows the telephone number, and not n's as shown here. Press OK.

Select a line for the speed dial code

01:nnnnnnnn
CLR CHANGE

Press .

Use prime line
CHANGE

Press CHANGE to see your options: Use prime line, a specific line (for example Use line: 01), a line pool (for example Pool code:71), or Use routing tbl.

Stop pressing CHANGE when the display shows the prime line again.

Use prime line
CHANGE

In this example, the system selects the prime line automatically (the most common choice), to dial speed dial code 01.

If you assign a specific line to a system speed dial number, only telephones with an appearance of that line can use the speed dial number.

Choose what shows up on the display

Use prime line
CHANGE

Press .

Display digits:Y
CHANGE

Your choices are Yes and No. Yes means the display shows the telephone number. Press CHANGE.

Display digits:N
CHANGE

No means the display shows a name for the code.

Program a name for a speed dial

The system has a standard name to display, so it is not necessary for you to program one. However, if you have chosen not to display the telephone number, you may want a specific name.

Display digits:N
CHANGE

Press .

Name: Sys Spd Di... Press .
CHANGE

...al 01 ... This is the name the display shows if you don't
CHANGE change it. Press CHANGE.

Name: _ --> Decide the name you want to give to the speed dial
code.

Press the telephone's numeric dial pad button that has the first letter of the name until the display shows the letter you want.

Name: S Press --> .
BKSP -->

Name: S_ Use the dial pad and --> until you have the entire
<-- BKSP --> name.

The name can be up to 16 characters long, including spaces.
Press # on the numeric dial pad to add spaces.

Name: SAVINGS BANK Press .
<-- BKSP -->

Name: SAVINGS BA... Press to end your session.
CLR CHANGE

Or you can press , then to program another speed dial number.

End of session



Changing the name of a telephone

Begin the programming session

Jan 1 12:00 PM Press .

Feature: Press ***** ***** **2** **6** **6** **3** **4** **4**.

Password: RETRY
 Press 2 3 6 4 6.

Change the name of a telephone

Terminals&Sets▶ Press .

Show set: **LIST** Enter the internal number (DN) of the telephone or voice mail extension. In this example, it's 21.

If the set has already been given a name, it appears after DN: on the display.

21:21▶ FIND Press then .

Name:21 This is the name the display shows if you don't
CHANGE change it. Press CHANGE.

Decide what name you want to give to the telephone number.

Name:-- --> Press the telephone's numeric dial pad button that has the first letter of the name until the display shows the letter you want.

Name: J Press --.

Name: J_ Use the dial pad and --> until you have the entire
 <-- BKSP --> name.

Name: JEAN B Press to use the name you have entered.
 <-- BKSP -->

The name can be up to 7 characters long, including spaces.

Name:JEAN B

CLR

CHANGE

Press to end your session.

You can press once to continue programming this telephone, or
press twice to return to the Terminals and Sets heading.

End of session

Changing the name of a line

Begin the programming session

Jan 1 12:00PM

Press .

Feature:

Press .

Password:

RETRY

Press .

Change the name of a line

Terminals&Sets▶

Press .

Lines▶

Press .

Show line:____

LIST

Enter the three-digit number of the line you want to name. In this example, it's line 002.

This is the name the display shows if you don't change it.

Line002:Line002▶

FIND

Press .

Name:Line002
CHANGE

Press CHANGE.

Decide what name you want to give to the line.

Name:____
-->

Press the telephone's numeric dial pad button that has the first letter of the name, until the display shows the letter you want.

Name:L
BKSP -->

Press -->.

Name:L____
<-- BKSP -->

Use the dial pad and --> until you have the entire name.

The name can be up to 7 characters long, including spaces.

Name:LOCAL
<-- BKSP -->

Press Next to use the name you have entered.

Name:LOCAL
CLR CHANGE

Press Rls to end your session.

You can press Heading once to continue programming this line, or press Heading twice to return to the Lines heading.

End of session



Making changes to Call Forward No Answer

Begin the programming session

Jan 1 12:00pm

Press Feature.

Feature:

Press * * 2 6 6 3 4 4.

Password: Press .
RETRY

Change where a call goes when there is no answer

Terminals&Sets▶ Press .

Show set:____ LIST Enter the internal number (DN) of the telephone or voice mail extension. In this example, it's 25.

If the set has been given a name, it appears on the display.

25:25 Press .
FIND

Capabilities▶ Press .

Fwd no answer▶ Press .

Fwd to:None Press CHANGE and enter the internal number where you want the calls to be sent. In this example, it's 21.
CHANGE

Fwd to:21
CLR CHANGE

You can press CLR to change the destination back to None.

Change the number of times the telephone rings before it is forwarded

Fwd to:21 Press .
CLR CHANGE

Forward delay:4 Use the CHANGE button to choose the number of times the telephone rings before it is forwarded.
CHANGE

Your choices are 2, 3, 4, 6 and 10 rings.

Forward delay:3
CHANGE

Press **[Rls]** to end your session.

You can press **[Heading]** to continue programming capabilities for this telephone, or press **[Heading]** four times to return to the Terminals and Sets heading.

End of session



Tip - If the Norstar set is a member of a Hunt Group, the Call Forward no answer feature is overridden and the Hunt Group call continues to ring until the hunt time has expired. For more information on Hunt Groups see "Programming Hunt Groups" on page 147.

Making changes to Call Forward on Busy

Begin the programming session

Jan 1 12:00PM

Press **[Feature]** .

Feature:

Press **[*][*][2][6][6][3][4][4]** .

Password:

RETRY

Press **[2][3][6][4][6]** .

Change where a call goes when a telephone is busy

Terminals&Sets▶

Press **[Show]** .

Show set:___

LIST

Enter the internal number (intercom number) of the telephone extension. In this example, it's 25.

If the set has been given a name, it appears on the display.

25:25 Press .
FIND

Capabilities▶ Press .

Fwd no answer▶ Press .

Fwd on busy... Press .

Fwd to:None Press CHANGE and enter the internal number where
CHANGE you want the calls to be sent. In this example, it's 21.

You can press CLR to change the destination back to None.

Fwd to:21 Press to end your session.
CLR CHANGE

You can press to continue programming capabilities for this telephone, or press three times to return to the Terminals and Sets heading.

End of session



Tip - If the Norstar set is a member of a Hunt Group, the Call Forward on busy feature is overridden and the Hunt Group call continues to ring until the hunt time has expired. For more information on Hunt Groups see "Programming Hunt Groups" on page 147.

Making Changes to Do Not Disturb on Busy

When you are on a call and a second call comes in, your telephone rings softly to alert you to the second call. You can turn this feature on or off for each telephone.

Begin the programming session

Jan 1 12:00PM Press .

Feature: Press .

Password: Press .

RETRY

Change Do Not Disturb on Busy

Terminals&Sets▶ Press .

Show set: LIST Enter the internal number (intercom number) of the telephone extension. In this example, it's 25.

If the set has been given a name, it appears on the display.

25:25 Press .

FIND

Capabilities▶ Press .

Fwd no answer▶ Press twice.

DND on Busy:Y Press CHANGE to turn the feature on.

CHANGE

DND on Busy:Y A second press turns it off again. Press to end your session.

CHANGE

You can press to continue programming capabilities for this telephone, or press three times to return to the Terminals and Sets heading.

End of session



Tip - *If the Norstar set is a member of a Hunt Group and the set activates this feature, the set does not receive notification of incoming Hunt Group calls while on a call. The DND on busy feature overrides the Hunt Group. For more information on Hunt Groups see “Programming Hunt Groups” on page 147.*

For more information on Call Forward and similar settings, see “Forwarding your calls to another Norstar telephone” on page 97.



What would you like to do next?

Some of the most common programming tasks are listed below. For a comprehensive list of settings and instructions, see either the Table of Contents or the Index.

Redirect calls coming in on a line.

See “Turning on Line Redirection” on page 102.

Allow individuals to answer calls that are ringing at another telephone.

See “Picking up a call ringing at another telephone” on page 35.

Assign telephones to different zones for paging.

See “Paging” on page 109.

Turn the night service on and off.

See “Making additional telephones ring” on page 181.

Use a basic password so others can take care of programming such as changing user speed dials, changing names, changing the time and date, and activating Auto Attendant features.

See “Using passwords” on page 187.

Answering calls

Answering incoming calls with Hunt Groups

Your Norstar system now allows you to establish Hunt Groups in your system. Hunt Groups are a group of Norstar set DN's that can be called by a single directory number. The Hunt Groups feature ensures calls are easily routed to the appropriate people. You can program

- the members for a Hunt Group
- member position within a Hunt Group
- how calls are distributed
- how long a call spends looking for available members
- what happens if all members are busy

For more information on Hunt Groups see "Programming Hunt Groups" on page 147.

Answering an incoming call

There are three indications of an incoming call: ringing, a line button flashing, and a message on the display. You may not necessarily receive all three indications for any particular call. For example, you may have a line that has been set up not to ring at your telephone. If so, you see only a flashing line button. There are many possible combinations, depending on how your system is set up. See "Choosing a line using a line button" on page 53 for more information on the use of lines.

If you receive a priority call and your telephone has no free internal line buttons, you cannot transfer the priority call, you must accept or release it.

Line buttons

One line button for each line is assigned to your telephone. Press the line button to select the line you want to answer or use to make a call. Having several line buttons allows you immediate access to more than one line.

The M7100 telephone has two intercom paths which are used instead of line buttons to answer and make calls. Each M7100 can be assigned two lines. You can press to switch between two calls, one active and one on hold.

What line indicators mean

- | | |
|---|---|
| ▶ Flashing on and off for equal lengths of time | There is an incoming call on the line. |
| ▶ Flashing on and off more quickly | You have placed a call on hold. |
| ▶ Flashing on for longer than off | Someone else has put a call on hold on that line. |
| ▶ On, not flashing | You are connected to the call on that line or the line is in use elsewhere. |
| Off | The line is free. |

Rings you may hear

- | | |
|---------------------------------|--|
| A double beep every ten seconds | A call has been camped to your telephone. |
| A long single ring | There is an external call on the line for you. |
| A shorter double ring | There is an internal call on the line for you or a call is being transferred to you. |
| A brief single ring | A call is being redirected on one of your redirected lines. You cannot answer this call. |
| Three beeps descending in tone | You are receiving a priority call. |

Answering calls at a prime telephone

Each line in a Norstar system can be assigned a prime telephone. Calls not answered at their normal destinations are transferred to the prime telephone. The prime telephone is usually the attendant's telephone. The installer or customer service representative programs a prime telephone for a line.

Displays

DND from 21

The person at telephone 21 has forwarded a call to you using Do Not Disturb.

DND transfer

The system has transferred a call to you from a telephone with Do Not Disturb turned on.

DRT Line001

Nobody answered this call so the system transferred it to you.

Line001 callback
CALLBACK

Someone has camped, parked or transferred a call on line 001, but no one has answered it. Press CALLBACK or the line button to connect to the call.

Line001 to Prime

There is no telephone that can receive a call on line 001 so the system has transferred it to you.

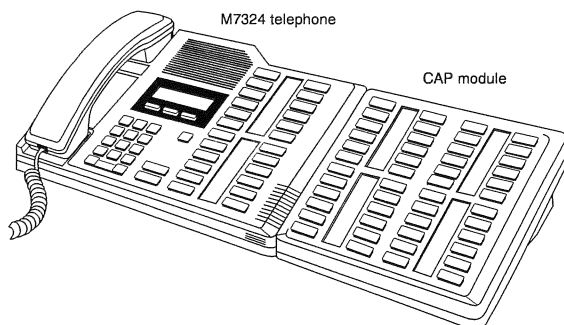
Line002>Line052

The call coming in on line 002 was intended for target line 052. Line 052 is busy so the call has come to you.

For other displays, see "Common feature displays" on page 215.

Using a central answering position (CAP) module

A central answering position (CAP) is a Norstar M7324 telephone and a CAP module that your installer or customer service representative programmed as a CAP. It is best if the CAP is the prime telephone and direct-dial telephone for the lines and telephones it serves



A CAP module is an add-on device that provides 48 extra memory or line buttons. You can connect one Norstar CAP module to the telephone to increase the number of lines it can handle.

When a CAP module is first plugged into your telephone, some of the module buttons are already programmed to dial an internal number.

Customizing your CAP module

If your installer has programmed the CAP module to be the central answering position for your system, you can move external lines onto the CAP module by using

. See “Moving line buttons” on page 135.

Any of the buttons on your CAP module that do not select lines can be programmed to dial internal or external numbers automatically. You can program features onto CAP module buttons. See “Time savers for making calls” on page 77 and “Customizing your telephone” on page 127 for information on programming memory buttons.

Monitoring telephones with the CAP module

The indicators  beside internal autodial buttons on your CAP module show the status of Norstar telephones.

The indicator is on when the telephone has:

- an active call
- Do Not Disturb turned on

The indicator is off when a telephone has:

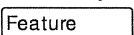
- no active call
- a call on hold and no other active call



Tip - You can send up to 30 messages from a CAP.

Release button

Pressing  ends a call. You do not have to put the receiver down.  also ends feature programming.

While you are on a call, do not press  to end a feature you are using. If you do, you disconnect the call. Use  instead.

Hearing aid compatibility

The receivers on all Norstar telephones are compatible with hearing aids as defined in the FCC rules, Part 68, section 68.316. Not all hearing aids are optimized for use with a telephone.

Viewing information about a call on the display

If you subscribe to Call Display services from your local telephone company, one line of information about an external caller is displayed after you answer. Depending on the setting and the external information available, either the caller's name or telephone number is displayed.

When you transfer an external call to another Norstar user, this information is displayed on the recipient's telephone.

Call Display information becomes available between the first and second ring of an incoming call. If you answer before the Call Display information is available on your display, and you press , you see only the line number or line name.

To use logging features with Call Display, see “Using Call Log” on page 119.

Using Call Information for a particular call

Call Information allows you to see information about incoming calls. This information is more detailed than the Call Display information you can receive automatically. For external calls, you can display the caller's name, telephone number, and the line name. For an internal call, you can display the caller's name and their internal number. You can see information for ringing, answered, or held calls.

Call Information is available for calls even if they have been transferred, forwarded or rerouted in some way.

Names and numbers for external calls are displayed only if you have subscribed to Call Display services from your telephone company.



Tip - Call Log displays the same information as Call Information, along with the date and time of the call, and the number of times the caller called.

Displaying Call Information before or after answering

To find out who is calling or to display information about your current call:

1. Press .
2. Press or VIEW to display more information about an external call.

Call Display information becomes available between the first and second ring of an incoming call. If you answer before the Call Display information is available on your display, and you press , you see only the line number or line name.

Displaying Call Information for a call on hold

1. Press . The display reads **Select a call**.
2. Select the line on hold. Information about the call is displayed.
3. Press or VIEW to display more information about an external call.



Tip - If your telephone automatically displays Call Display information for a call, you need to press before you can press or VIEW to display more information about the call.

Making Call Display information appear automatically at a telephone

Each telephone that rings for an external line can display Call Display information for that line. After the call is answered, Call Display information is always shown at the telephone that answered the call. Your installer or customer service representative can program telephones to have automatic Call Display.

This feature is not available to ISDN terminals.

Changing what information is shown first about a call

Depending on the services you subscribe to, Call Display information may contain up to three parts: the name of the caller, the number of the caller, or the name of the line in your Norstar system that the call is on. For each telephone, you can determine which information is displayed first.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press (the default System Coordinator password).
3. Press and enter the internal number of the telephone you want to program.
4. Press .
5. Press four times.
6. Press .
7. Choose a setting at **1stDisplay:** using the **CHANGE** button. The choices are **Name**, **Numbr** or **Line**.

You may see **Unknown name** or **Unknown number** on the display if the information is not available from your telephone company. You may see **Private name** or **Private number** on the display if the caller blocks that information.

Picking up a call ringing at another telephone

You can pick up a call ringing at another telephone using Directed Pickup or Group Pickup.

Answering any ringing telephone using Directed Pickup

Feature

You can answer any telephone that is ringing in your Norstar system.

1. Press .
2. Enter the internal number of the ringing telephone.

Call Pickup cannot be used to answer private lines.

To use Call Pickup (Directed Pickup), the telephone must be ringing. If, for example, the auxiliary ringer is ringing, but the call is not ringing at a telephone, the call cannot be answered using Directed Pickup. It must be answered normally at a telephone that has a flashing indicator for the call, or by using Trunk Answer. You can answer a call that is ringing because someone has transferred the call to a telephone and the call is ringing on an intercom button.



Tip - Directed pickup can retrieve calls that are ringing on an Answer DN. While you may enter the internal number of the telephone you hear ringing, it may be calls from another telephone you are answering.

Answering any ringing telephone using Group Pickup

Feature 7 5

Your Norstar system can be divided into four pickup groups. If you are a member of a pickup group, you can pick up a call that is ringing at any telephone in your pickup group.

Press Feature 7 5 .

Group Pickup cannot be used to retrieve a camped call.

If there is more than one incoming call at a telephone in a pickup group, a call ringing on an external line is answered first followed by calls on the prime line and, finally, calls on internal lines.



Tip - A Hunt Group call ringing at a Norstar set DN that is also a member of a call pickup group can be picked up by any Norstar set in that call pickup group. For more information on Hunt Groups see "Programming Hunt Groups" on page 147.

Changing a telephone's pickup group

Telephones can be put into and taken out of pickup groups.

You need the programming template found at the front of this guide. See "Getting started with Norstar" on page 1 for more information.

1. Press Feature * * 2 6 6 3 4 4 .
2. Press 2 3 6 4 6 (the default System Coordinator password).
3. Press Show and enter the internal number of the telephone you want to program.
4. Press Show twice.

5. Press five times.
6. Press **CHANGE** at **Pickup grp:** to assign the telephone to pickup group 1, 2, 3, or 4, or to None.

Displays

Already joined

You are already connected to the telephone that made the call you are trying to pick up. This can happen if you are on a call to a co-worker, your co-worker dials the number of a telephone in your pickup group, and you attempt to pick up that call.

Pickup denied

There is no call that you can pick up or the call that was ringing has already been answered.

You have tried to pick up a call on someone else's private line.

Pickup:

Enter the internal number of the telephone that is ringing. (You may use an internal autodial button to do this.)

If you decide not to answer a ringing call after you have activated Directed Pickup, press

.

Trunk Answer

The Trunk Answer feature allows you to answer a ringing call anywhere in the system from any telephone in the system. The line you are answering does not have to appear or ring at the telephone you are using.

Trunk Answer works only with calls that are ringing on lines for which a Ringing Service schedule is active and if Trunk Answer is enabled by your installer or customer service representative.

Answering a call using Trunk Answer

Press .



Tip - If there is more than one incoming call on lines in a Ringing Service, the Trunk Answer feature picks up the external call that has been ringing the longest.

Displays

Line denied

You have tried to pick up a call on someone else's private line.

Pickup denied

The call that is ringing is on a line that is not in a Ringing Service.

Answer buttons

You can use an Answer button to monitor calls on another person's telephone. All calls to the monitored Norstar telephone appear on the Answer button.

Answer buttons are useful for attendants who monitor incoming calls for one or several other people. For example, a secretary may have appearances for three different bosses on her answer buttons. Once a call for boss A is answered by the secretary, the appearance stops at that boss' set. This allows for another (simultaneous) call to come in on the same line. The same is true for boss B and boss C. When incoming call traffic becomes high, the calls can then be routed to a Hunt Group to optimize call handling. For more information on Hunt Groups see "Programming Hunt Groups" on page 147.

The Answer button setting in Featr settings programming allows you to determine what types of calls alert at the telephone. Your choices are: Basic, Enhanced and Extended.

See the *Norstar Modular ICS 4.0 Installer Guide* for more information.

M7100N telephones and ISDN terminals cannot be assigned Answer buttons to monitor other sets, but they can be monitored.

You cannot make calls using Answer buttons.

If more than one call is ringing at someone's telephone, the first call appears on the attendant's Answer button. Any subsequent calls appear on intercom buttons, if they are available.



Tip - *More than one attendant may have an Answer button for a single telephone. This allows two or more attendants to handle calls for a busy person.*

Each telephone can handle calls for up to eight other people using a separate Answer button for each person.

Creating a Conference Call

Feature 3

You can talk to two people at once.

1. Make sure you have two calls, one active and one on hold.
2. Press Feature 3.
3. Press the appropriate button to retrieve the held call (this is automatic on the M7100 telephone).

You can create a conference when you are on a call.

1. Make a second call.
2. Press Feature 3.

3. Press the button where the first call is on hold to create a conference.

Only the person who established the conference can process the conference by using the procedures described in this section.



Tip - You can create a conference by releasing privacy on a call. See "Turning Privacy on or off for a call" on page 48.

Disconnecting one party

You can disconnect one party from a conference and continue talking to the other.

On an M7208, M7310 or M7324 telephone:

1. Press the line button of the call that you want to disconnect. The call that you want to keep is automatically put on hold.
2. Press **[Rls]**. The call is disconnected.
3. Press the line button of the held call to speak to the remaining person.

On an M7100 telephone:

1. Press **[Feature]** **#** **3**, to place one caller on hold. Press **[Hold]** again, to put the caller you want to keep on hold.
2. Press **[Rls]**. The call is disconnected.
3. Press **[Hold]** to speak to the remaining party.

Independently holding two calls

For all Norstar telephones except the M7100 telephone, you can put the two people in a conference call on hold independently so that they cannot talk to each other.

1. Press the line button of one person. The other person is automatically put on hold.
2. Press . The second person is put on hold.

You can re-establish the conference.

1. Take one call off hold.
2. Press .
3. Take the other call off hold.

Putting a conference on hold

You can put a conference on hold, allowing the other two people to continue speaking to each other by pressing

.

You can reconnect to the conference by pressing either of the held line buttons. For the M7100 telephone, press .

Splitting a conference

You can talk with one person while the other person is on hold.

On an M7208, M7310 or M7324 telephone:

Press the line button of the person you want to speak to.
The other person is automatically put on hold.

On an M7100 telephone:

1. Press . The first party is on hold.
2. Press , if necessary, to switch parties.

You can re-establish the conference.

1. Press .
2. Take the held call off hold. This is not necessary for the M7100 telephone.

Removing yourself from a conference

You can remove yourself from a conference, and connect the other two callers through your Norstar system.

Enter the Transfer feature code .

When you remove yourself from a conference using the Transfer feature, and both callers are from outside your system, one of the callers must have called you on a disconnect supervised line, or the call is disconnected.

Displays

3 Parties only

You are trying to add a fourth party to your conference call, or to join two conferences together. Release one call from the conference before adding another, or keep the two conferences separate.

Conf. on hold

You have put a conference call on hold.

Conference busy

You have tried to make a conference call, but your system is already handling its maximum of four conference calls.

Line001 21
TRANSFER

You are on a conference with the two lines or telephones shown. You can drop out of the conference and leave the other two parties connected (Unsupervised Conference) by pressing TRANSFER or entering the Transfer feature code.

Press held line

You have activated the Conference feature with one call active and another on hold. Press the line of the call on hold to bring that person into the conference.

For other displays, see “Common feature displays” on page 215.

Listening to a call as a group

Feature 8 0 2

To allow people in your office to listen in on a call using Group Listening, press Feature 8 0 2.

You hear the caller’s voice through your telephone’s speaker. Continue to speak to the caller through the telephone receiver. Your telephone’s microphone is off, so the caller does not hear people in your office.

Canceling Group Listening

Feature # 8 0 2

Group Listening is canceled automatically when you hang up or when you press Feature # 8 0 2.



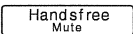
Tip - Keep the receiver away from the speaker, or you may hear feedback. The higher the volume, the more the feedback. Press Rls to prevent feedback when hanging up.

Using Handsfree/Mute

The ability to use Handsfree has to be turned on or off for each telephone. The type of Handsfree can be changed. See “Changing Handsfree for a telephone” on page 46.

You must turn on Handsfree for a telephone to be able to use a headset.

Answering calls without lifting the receiver

1. Press the line button for the ringing call. (This step is not necessary if you have a prime line assigned to your telephone.)
2. Press . The telephone's internal microphone and speaker are automatically turned on.

Handsfree is not available for an M7100 telephone.



Tip - *Direct your voice toward the telephone. The closer you are to the telephone, the easier it is for the microphone to transmit your voice clearly to your listener.*

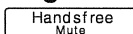
Making calls without lifting the receiver

1. Press . (If you don't have a prime line assigned to your telephone, press a line button.)
The telephone's internal microphone and speaker are automatically turned on.
2. Dial your call.
3. Speak normally.

Muting Handsfree

1. Press  to switch off the telephone microphone so that you can speak privately to someone in your office while you are on a handsfree call.
2. Press  to turn the microphone back on again and continue your handsfree call.

Changing a regular call to handsfree

1. Press .
2. Hang up the receiver.

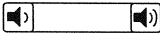
Changing a handsfree to a regular call

Lift the receiver.

Using Handsfree

The indicator next to  is solid when you have Handsfree turned on. It flashes when you mute the microphone.

Wait for your caller to finish speaking before you speak. The microphone and speaker cannot both be on at once. Your caller's voice may be cut off if you both speak at the same time. Noises such as a tapping pencil could be loud enough to turn on your microphone and cut off your caller's speech.

To prevent a possible echo, keep the area around your telephone free of paper and other objects that might screen your microphone. Turning down the microphone's volume (press the left end of  while speaking) prevents echoes. When you change the volume level, both the microphone and speaker volume are adjusted to prevent feedback problems.

Place the telephone so that any unavoidable local noise (such as an air conditioner) is behind it. This limits the amount of disruptive background noise.



Tip - *In open-concept environments, use the receiver when handsfree communication is not necessary or when you need privacy during a call. Another option is to use a headset.*

Changing Handsfree for a telephone

You can program the type of Handsfree used with each telephone.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press (the default System Coordinator password).
3. Press and enter the internal number of the telephone you want to program.
4. Press twice.
5. Press three times.
6. Choose a setting at **Handsfree:** using the CHANGE button.

There are three ways to set Handsfree for an individual telephone:

Handsfree:None
CHANGE

Handsfree is not available to the telephone.

Handsfree:Auto
CHANGE

You can make or answer a call without having to pick up the receiver or press . The telephone's internal microphone and speaker turn on automatically when you press a line or intercom button to make or answer a call.

Handsfree:Std
CHANGE

A standard version of Handsfree described “Using Handsfree/Mute” on page 43.

For other displays, see “Common feature displays” on page 215.

Both Auto and standard Handsfree allow you to use a headset with a Norstar telephone.

A Handsfree/Mute button is automatically assigned to a telephone that is programmed with Handsfree and is always located in the lower right-hand corner of the telephone.

Changing Handsfree Answerback for a telephone

Handsfree Answerback allows you to answer a voice call without lifting the receiver. It is always turned off for an M7100 telephone.

You can turn Handsfree Answerback on or off for a telephone that is programmed to use Handsfree.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press (the default System Coordinator password).
3. Press and enter the internal number of the telephone you want to program.
4. Press twice.
5. Press four times.
6. Choose a setting (Yes or No) at HF answerback: using the CHANGE button.

Turning Privacy on or off for a call

Feature

Lines in your system can be configured to have automatic privacy. If a line is not programmed with privacy, anyone with the line assigned to their telephone can join your call by pressing the line button. If a line is programmed with privacy, only one person at a time can use the line.

Privacy control cannot be used on internal or conference calls.

When another telephone joins a call, the participants on the call hear a tone, and a message appears on the Norstar display. You cannot join a call without this tone being heard.

Creating a conference by releasing privacy

If a line is programmed with privacy, you can turn privacy off to allow another person with the same line to join in your conversation and form a conference. All the rules applicable to a conference apply except there is only one line in use, instead of the normal two. This means that you cannot split a conference set up using Privacy.

1. Press .
2. Tell the other person to press the line button and join your conversation.

Only two Norstar telephones in addition to the external caller can take part in this kind of conference.

Making a call private

If a line is programmed to not have privacy, you can turn privacy on for a call, preventing other people with the same line from joining your conversation.

Press .

Checking call length using Call Duration Timer

Feature 7 7

By pressing Feature 7 7, you can see how long you spent on your last call, or how long you have been on your present call.

Displays

21 02:47

The display shows the last call you made, or the current call, and the total elapsed time in minutes and seconds.

Line001 01:45

You parked your last call. The display shows the length of time the call was parked. You cannot see the length of time a call was parked unless the call is active at your telephone or has just been released by your telephone.

Disconnecting by accident

If you accidentally drop the receiver back into the telephone cradle while answering a call, you can quickly retrieve the call.

Pick up the receiver again or press Handsfree
Mute within one second to be reconnected to your call.

Making calls

There are many ways to make a call, depending on the programming and the type of call, as follows:

- Pick up the receiver and dial. The Norstar system supports three methods of dialing. See “Changing how you dial your calls” on page 55.
- Pick up the receiver, press a line button, and dial (if the call is not on your prime line).
- Press  and dial (to talk without using the receiver). See “Using Handsfree/Mute” on page 43.
- Press , press a line button, and dial (to talk without the receiver and if the call is not on your prime line).
- Press a line button and dial (to talk without the receiver and if Automatic Handsfree is assigned to your telephone).
- Use one of the features that make dialing easier. See “Time savers for making calls” on page 77.

Displays

21 busy
PRIORITY LATER

The telephone you have called has no internal lines available. Press LATER to use the Ring Again or Message features or press PRIORITY to make a priority call.

9_
QUIT BKSP

You are dialing using Pre-Dial. To erase an incorrect digit, press the left end of  or BKSP. When the number is complete, select a line or lift the receiver.

95551234
TRANSFER

This prompt remains on your display as long as you are on a call you have dialed. To transfer the call, press TRANSFER.

Already joined	Your telephone is already connected to the telephone you are trying to call. Check your active line buttons, and return to that call.
Calling 21 PRIORITY LATER	Wait for the telephone to be answered. If no one answers, press <u>LATER</u> to use the Ring Again (page 59) or Message (page 112) feature, or press <u>PRIORITY</u> to make a priority call.
Can't ring again	You cannot use Ring Again on your current call. You can only use Ring Again while you have a busy signal on an internal call or line pool request or while an internal call is ringing.
Do not disturb PRIORITY LATER	The telephone you are calling has Do Not Disturb turned on. Press <u>LATER</u> to use the Ring Again or Messages features, or press <u>PRIORITY</u> to make a priority call.
Expensive route	You have dialed a number, but the least expensive route that the system is programmed to use is busy. Unless you release the call, it goes through on a more expensive route.
Hidden number	The last number you dialed or the number you saved for Saved Number Redial was a speed dial number that displayed a name rather than the number. The number is dialed correctly, but you cannot see it.
Line denied	You have attempted to use someone else's private line.
Line001 TRANSFER	Enter the digits of the number you want to dial.
No last number	You have not dialed an external telephone number since the last power interruption or system reset.
No line selected	Either you have no prime line or your prime line is busy. Select a line manually before dialing.

Not in service	You have entered the number of a telephone that is not in service.
On another call LATER	The telephone you have called is on another call. Press <u>LATER</u> to use the Ring Again or Message features.
Restricted call	The call you are trying to make has been restricted in programming. A possible reason is time-of-day restrictions on certain calls.
Ring Again? YES NO EXIT	Press <u>YES</u> to use Ring Again. Press <u>NO</u> to send a message. See "Sending messages using the display" on page 112 and "Turning on Ring Again" on page 59.
Select a line	Either you have no prime line, or the prime line is in use, or the line programmed for an autodial number, speed dial number, or Hotline is in use. Select a line and dial again.
Send message? YES NO	Press <u>YES</u> to send a message. See Messages.

For other displays, see "Common feature displays" on page 215.

Choosing a line using a line button

You have one line button for each line assigned to your telephone. Press the line button to select the line you want to answer or use to make a call. Having several line buttons allows you immediate access to more than one line.

The M7100 telephone has two intercom paths which are used instead of line buttons to answer and make calls. Each M7100 can be assigned two lines. You can press Hold to switch between two calls, one active and one on hold.

Line pools

A line pool is a group of external lines that can be shared by many telephones. You can use a line in a line pool to make an external call.

The Norstar Compact ICS can have three line pools, and a telephone can be programmed to access any number of them.

A line pool access code is a number you dial to get a line pool. The access code can be up to four digits long. You can have several different line pools for your system, each one giving you access to a different set of external lines. It is one way of sharing lines across telephones in a system.

Your installer or customer service representative programs the line pool access codes and gives each telephone access to a line pool.

Everyone in the office should have a list of the line pool access codes for the line pools their telephones can use.

Using a line pool to make a call

Feature

1. Press .
2. Enter a line pool access code.

If you have a free internal line, you can make a call using a line pool without entering the feature code first.

1. Select an internal line (intercom).
2. Dial the line pool access code.



Tip - If no lines are available in the line pool, you can use *Ring Again* at the busy tone. You are notified when a line in the line pool becomes available. See “Using *Ring Again*” on page 59.

Programming a memory button with a line pool feature code

When you program a button with the line pool feature code, you must enter a line pool access code after the feature code. The programmed line pool button accesses a specific line pool, not the line pool feature. See “Programming feature buttons” on page 129 for more information.

If you program a button with an indicator to access a line pool, when all the lines in a line pool are busy, the indicator for the line pool button turns on. The indicator turns off when a line becomes available.

Making calls from an ISDN terminal

ISDN terminals do not have line keys or intercom keys as do Norstar telephones. To make an outgoing call from an ISDN terminal, access an external line by entering a line pool code or by using the ARS feature.

Changing how you dial your calls

Feature * 8 2

1. Press Feature * 8 2 .
2. Press # or NEXT until the dialing mode you want appears.
3. Press Hold or OK to select the displayed dialing mode.

The dialing modes feature code cannot be programmed onto a memory button.

Using Standard Dial

Standard Dial allows you to make a call by selecting a line and dialing the number. If you have a prime line, it is selected automatically when you lift the receiver or press  .

You cannot use Standard Dial on an M7100 telephone unless you pick up the receiver first. If you have an M7100 telephone, use the Automatic Dial or Pre-dial feature for on-hook dialing.

Using Automatic Dial

Automatic Dial allows you to dial a number without selecting a line. Your prime line is selected as soon as you start dialing a number.

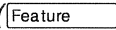
Automatic Dial does not work if your telephone has no prime line or if your prime line is in use.

Telephones connected to an analog terminal adapter (ATA) cannot use Automatic Dial.

Using Pre-dial

Pre-dial allows you to enter a telephone number, check it, then change it before actually making the call. The call is not dialed until you select a line or line pool, or pick up the receiver. You can pre-dial both external and internal numbers. You must, however, select the correct type of line (external or internal) for the type of number you have entered.



Tip - *If your telephone starts ringing while you are pre-dialing a number, you can stop the ringing by turning on Do Not Disturb ( 8 5). This does not affect numbers you are entering.*

You cannot pre-dial a telephone number if all the lines on your telephone are busy.

When the internal number you have called is busy

Priority Call

Feature 6 9

If you get a busy signal or a Do Not Disturb message when you call someone in your office, you can interrupt them. Use this feature for urgent calls only.



Tip - Priority calls cannot be made to Hunt Group DNs. For more information on Hunt Groups see “Programming Hunt Groups” on page 147.

Making a priority call

1. Press Feature 6 9 .
2. Wait for a connection, then speak.

A person who receives a priority call while on another call has eight seconds to accept or block the call. For information on blocking calls see “Stopping calls” on page 162. If the person does nothing, the priority call feature puts their active call, including conference parties, on Exclusive Hold and connects your call.

Giving a telephone the ability to make priority calls

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press Feature * * 2 6 6 3 4 4 .
2. Press 2 3 6 4 6 (the default System Coordinator password).

3. Press and enter the internal number of the telephone you want to program.
4. Press twice.
5. Press nine times. The display shows **Priority call:**.
6. Press **CHANGE** to choose **Y** (Yes) or **N** (No).

Displays

Call blocked

You tried to place a priority call to another Norstar telephone. The person you called has blocked your call. Try to call later.

Please wait

The party you are calling has eight seconds to decide whether to accept or reject your priority call.

Priority denied

The telephone you are calling has already received a priority call or is unable to receive priority calls.

You can make a priority call only while your telephone displays:

21 busy
PRIORITY LATER

Calling 21
PRIORITY LATER

Do not disturb
PRIORITY LATER

On another call
PRIORITY LATER

Using Ring Again

Feature 2

Use Ring Again when you call someone on your Norstar system and their telephone is busy or there is no answer. Ring Again can tell you when they hang up or next use their telephone. You can use Ring Again to tell you when a busy line pool becomes available.



Tip - The Ring Again feature cannot be used when calling a Hunt Group DN. For more information on Hunt Groups see "Programming Hunt Groups" on page 147

Turning on Ring Again

Feature 2

Press Feature 2 before you hang up.

Using Ring Again cancels any previous Ring Again requests at your telephone.

Canceling Ring Again

Feature # 2

Press Feature # 2 to cancel a Ring Again request.

Displays

Can't ring again

You cannot use Ring Again on your current call. You can only use Ring Again while you have a busy signal on an internal call or line pool request, or while an internal call is ringing.

Ring Again?
YES NO EXIT

Press YES to use Ring Again. Press NO if you prefer to send a message.

Auto Attendant

The built-in Auto Attendant automatically answers and directs incoming calls, which can reduce or eliminate the workload for the person who answers incoming calls for an office. The Auto Attendant carries out three tasks: System Answer, Custom Call Routing (CCR) and direct extension dialing.



Tip - *The Auto Attendant can transfer calls to a Hunt Group. For more information on Hunt Groups see "Programming Hunt Groups" on page 147.*

Your installer or customer service representative enables the Auto Attendant for your Compact ICS, and programs which lines are to be answered by CCR.

You may have the option of choosing to record your own greetings instead of using the pre-recorded greetings for System Answer and CCR. Consult your Customer Service Representative to determine whether or not your system has the capability to record customer greetings.

System Answer

The System Answer feature simplifies the job of answering calls by making sure all calls are answered within a set number of rings. When calls go unanswered at the telephone monitored by System Answer (called the attendant set), Norstar answers the call and plays a greeting. It then puts the call on hold until someone can retrieve it.

If the caller knows the internal number they want to reach, or is using the Norstar remote features, they can dial while the System Answer greeting is playing.

System Answer monitors all external calls that appear as a flashing line button on the attendant telephone including Answer buttons and external calls that have been transferred. After System Answer has played the greeting, the call is put on hold at the same line indicator where it first appeared. The feature does not answer calls from internal extensions.

Custom Call Routing (CCR)

The job of answering and transferring calls can be taken over by CCR. When someone calls on lines monitored by CCR, the system answers the call and plays a greeting you have recorded. Callers using a tone dial set can then:

- direct their call by pressing a digit as instructed by your greeting (for example, “to reach our salespeople, press 4”)
- enter an internal telephone number (a fast way for regular callers to reach someone directly)
- access remote features
- reach an attendant by pressing a single digit (a way to transfer out of CCR and talk to someone)

You can use two greetings with CCR: one for when your office is open and one for when it is closed. The business closed greeting may announce your office hours and give a digit to press to leave a message (if you have a voice mail system or answering machine), and callers can dial an internal number to reach someone who is working after hours.

If CCR forwards a call and it goes unanswered (either because the caller enters an invalid extension number or no one is there to answer the call) the call is redirected to ring at the prime telephone after the usual Callback delay. Once a caller has dialed out of the CCR greeting, he or she is not able to return and make another selection.

CCR groups

CCR allows callers to reach groups of telephones by dialing a single digit they select from the audio menu. You create the CCR groups in programming.

When a call is sent to a CCR group in which all the telephones have the same programming, the call goes to the telephone with the lowest internal number.

If the telephones in a CCR group have different programming, the call is handled by the telephone programming that takes effect first. For example, if a telephone in a group forwards after two rings, it forwards the call from CCR before the telephones in the group that are programmed to forward after three rings.

A CCR call is forwarded by Forward on Busy, the Call Forward feature code, and Callback programming. Be sure to keep this in mind when programming the telephones in your CCR groups.

When a call that was handled by CCR rings at your telephone, call information appears automatically on the display. You must subscribe to a call display service and have the proper equipment installed in your system for this feature to work. If CCR is programmed to answer the call in less than two rings, the call information may not be captured and forwarded to the telephones in the CCR group.

Direct extension dialing

Both System Answer and CCR give the caller the opportunity to dial an internal telephone number or use remote feature access such as direct inward system access (DISA). This means callers do not have to wait to reach the person they are calling and only the person they are calling has to handle the call.

Customizing System Answer and CCR

Your installer or customer service representative turns on System Answer and CCR for your system. They assign which lines can be answered with CCR. Until this master control is turned on, the Auto Attendant features are not available.

It is recommended that the CCR not be programmed to answer lines that are answered by System Answer at the attendant telephone (usually the reception telephone).

It's a good idea to plan how you are going to customize System Answer and CCR before you start programming.

- Decide which telephone is to be the attendant telephone (where calls can be answered automatically and put on hold).
- For pre-recorded greetings, decide which language is to be used to greet callers. If you want two languages, decide which is heard first.
- Write down the greetings or scripts that you want to record as the company greeting and business closed greeting (see examples in "Recording customized greetings for System Answer and CCR" on page 73).
- Organize your telephones into groups and decide what number a caller is to use to reach each group. Using the groups and numbers you have created, write down the greeting or "script" to be heard as the CCR.
- Decide how many times a call rings before System Answer and CCR answer. Be sure it does not conflict with voice mail or other auto attendant applications you may be using. If CCR lines ring at the attendant set, CCR and System Answer can conflict.
- Use a programming session and feature codes to create your custom System Answer and CCR.

- Test both System Answer and CCR to make sure they are working properly.
- Make sure your installer or customer service advisor has programmed your system to use the held line reminder tone. This provides another indication that System Answer has placed a call on hold.

Turning System Answer on or off

Feature * 8 3 1

System Answer can be turned on and off at any telephone in the system. System Answer handles only the calls that ring at the attendant telephone (attendant set).

1. Press Feature * 8 3 1 . The display shows the current status of System Answer.
2. Press **CHANGE** or # and enter the System Coordinator password or Basic password (the default passwords are 2 3 6 4 6 and 2 2 7 4 2) to turn the feature on or off.
3. Press **OK** or * to confirm the change.

Because System Answer answers calls and then puts them on hold, the feature should be turned off when no one is at the telephone to retrieve the calls.



Tip - You can program the feature code for turning System Answer and CCR on or off on a memory button with an indicator at the attendant telephone. You know that the feature is turned on when the indicator is lit at the attendant set.

Turning CCR on or off

Feature * 8 3 2

1. Press Feature * 8 3 2. The display shows the current status of CCR.
2. Press **CHANGE** or # and enter the System Coordinator password or Basic password (the default passwords are 2 3 6 4 6 and 2 2 7 4 2) to select a setting: **OFF**, **Bus. Open**, or **Bus. Closed**.
3. Press **OK** or * to confirm the change.

See the section on recording greetings for a description of the Business Open and Business Closed greetings used with CCR.

Choosing the attendant telephone

Programming allows you to choose a telephone to be the attendant telephone (attendant set). External calls that go unanswered at this telephone are handled by System Answer.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press Feature * * 2 6 6 3 4 4.
2. Press 2 3 6 4 6 (the default System Coordinator password). The display shows **Terminals&Sets**.
3. Press **Back** twice. The display shows **System Programming**.
4. Press **Show**, **Next**, and **Show**. The display shows the internal number of the current attendant telephone.
5. Press **CHANGE** and enter the internal number of the telephone you want to assign as the attendant telephone.

Changing the language used by System Answer and CCR

The programmed greetings used with the auto attendant features are available in three languages. You can change which language that callers hear, or program the system to play greetings in a second language.

If you record your own greeting, that custom greeting is the one that is played regardless of the language choice.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press (the default System Coordinator password). The display shows **Terminals&Sets**.
3. Press twice. The display shows **System Programming**.
4. Press , , and . The display shows the setting for the attendant telephone.
5. Press . The display shows **Language**.
6. Press . The display shows the first language used in greetings.
7. Press **CHANGE** to select a language: **English**, **French** or **Spanish**.
8. Press . The display shows the second language that callers hear. Press **CHANGE** to select a different language or **NONE**.

Setting the number of rings before System Answer answers a call

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press .
2. Press (the default System Coordinator password).
3. Press twice.
4. Press , , and .
5. Press twice. The display shows **System Answer...**
6. Press .
7. Press **CHANGE** until you see the appropriate number of rings (between 1 and 12).

If the system is busy answering calls, the line rings until System Answer can retrieve the call.

Setting the number of rings before a caller hears the CCR greeting

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press .
2. Press (the default System Coordinator password).
3. Press twice.
4. Press , , and .
5. Press three times. The display shows **CCR▶**.

6. Press .
7. Press **CHANGE** until you see the appropriate number of rings (between 1 and 12).

If the system is busy answering calls, the line rings until CCR can retrieve the call.

If CCR is programmed to answer the call in less than two rings, the call information may not be captured and forwarded to telephones in the CCR group.

Adding or removing telephones from a group used with CCR

The greeting you create for CCR tells a caller to press a number to reach a group of telephones. You add or remove telephones from these groups (CCR groups) in programming.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4.
2. Press (the default System Coordinator password).
3. Press twice.
4. Press , , and .
5. Press three times. The display shows CCR▶.
6. Press .
7. Press . The display shows CCR groups▶.
8. Press and enter the number of the group to which you want to make changes.
9. Press and enter the internal number of the telephone you want to add or remove from the group.

10. Press **CHANGE** to select the status of the telephone in the group: **Assigned, Unassigned.**

You can have a total of nine CCR groups. Each group can include up to 20 telephones.

Using the pre-recorded greetings

Pre-recorded greetings are always used when the System Answer or CCR are turned on, even if you don't create personalized recordings. The pre-recorded greetings can be turned off (not erased) and/or replaced with user-recorded substitutes. If a pre-recorded greeting is turned off, all System Answer and CCR features that use that greeting are affected.

Incoming calls at the attendant telephone hear the System Answer greetings. Lines that are set up to be answered by CCR hear a different set of greetings. They are:

- *All of our operators are busy.*
- *If you know the extension that you want, and are using a touch-tone phone, please dial it now.*
- *Or, hold the line and your call will be answered as soon as possible.*
- *Thank you for calling.*

In the next section, these recordings appear (in italics) as part of examples of complete greetings that callers might hear. "Thank you for calling" is heard when the caller does not respond to the Business closed greeting after it has been repeated, before the system disconnects the caller.

Using customized greetings for System Answer and CCR

Norstar uses both greetings you record and pre-recorded greetings to tell callers how their call is being handled. You can make your own voice recordings for all of the greetings used in System Answer and CCR.

For customer greetings, you can create your own version or turn the greeting off completely. With system greetings, you can select the system version, create your own version, or turn the greeting off.

The following examples use greetings recorded for use at a company called Bluebird Consulting. You can use them as models for when you make your own recordings.

The pre-programmed parts of the greetings are shown in italics.

System Answer on:

You have reached Bluebird Consulting. *All of our operators are busy. If you know the extension that you want, and are using a touch tone phone, please dial it now. Or, hold the line and your call will be answered as soon as possible.*

You may choose to create your own message (shown in italics following) instead of using the pre-recorded greetings:

You have reached Bluebird Consulting. *We can't come to the phone right now. If you know the number of the person you are trying to reach, enter the number now. Or stay on the line and someone will assist you momentarily.*

CCR, Bus. open:

You have reached Bluebird Consulting. To reach one of our sales agents, press 1. To contact our accounting office, press 2.

To reach Joan Smithers, press 3. To talk to an attendant, press 0. To repeat this menu, press star. *If you know the extension that you want, and are using a touch tone phone, please dial it now. Or, hold the line and your call will be answered as soon as possible.*

CCR, Bus. closed:

You have reached Bluebird Consulting. Our offices are closed. Our business hours are 8 a.m. to 5 p.m., Monday through Friday, Pacific Standard Time. *If you know the extension that you want, and are using a touch tone phone, please dial it now.*



Tip - For better sound quality in your greetings, use the handset for recording greetings (not the handsfree microphone).

Time available for customized greetings

You have a total of 96 seconds of recording time to allocate to all greetings. If you begin by recording a 15 second company greeting, there are 81 seconds available for the remaining greetings ($96-15=81$). The maximum length of a single recording is 32 seconds. If you exceed the maximum time for a single recording, an error message accompanied by a tone is given.

A greeting that is turned off is not erased. The time used by the greeting does not return to the 96 second time pool.

User-recorded greetings are stored on the feature card. The recordings are erased when the card is replaced. If the same card is removed then reinserted, the recordings are preserved. You must re-record all user-recorded greetings when upgrading to a new feature card.



System greetings are permanent and can never be erased.



FLASH memory degrades slightly each time a message is recorded. Typically, messages can be erased and written thousands of times. However, care must be taken to plan out what messages are to be recorded and how often they are to be changed in order to reduce the number of re-recordings made over a long period of time. A warning is given when the card has degraded significantly. Contact your Customer Service Representative when this warning occurs.

The pre-recorded system messages do not use any portion of the 96 seconds of total recording time. They cannot be erased, but they can be turned off or replaced with a user-recorded substitute.

Recording customized greetings for System Answer and CCR

Feature * 8 3 3

Both System Answer and CCR must be turned off to use this feature.

The customized greetings are not available to System Answer and CCR while you are recording. Callers hear only the pre-recorded greetings.

There are seven greetings to choose from, three user greetings and four pre-recorded system greetings.

You can record your own user greetings with the first three greetings choices (A, B, and C). You can also turn these greetings off.

If your system does not have the capability to allow you to record your own version of the system greetings (D, E, F, and G) you can turn on the pre-recorded system greetings or turn them off.

If your system has the capability to allow you to record your own version of the system greetings (D, E, F, and G) you can record your own system greetings, turn on the pre-recorded system greetings or turn them off.

1. Press * and enter the System Coordinator password (the default password is).
2. If you have the capability to record your own system greetings, the display shows **Auto att grtns.**

If you do not have the capability to record your own system greetings, the display shows **Change rec time?**. Select **yes** to change the recording time or **no** to keep the recording time as is.

The display then shows **Auto att grtns.** Your choices are: **SHOW**, **EXIT**, and **NEXT**. (**NEXT** takes you to the menu for programming destinations for CCR.)

3. Press . The display shows **Grtg A mode: User**. Your choices are: **CHG**, **SHOW**, and **NEXT**. (**NEXT** takes you to **Grtg B mode: User**.)
4. Press **CHG** if you want to turn greeting A, B, or C off (**Off**) or if you want to record your own greeting (**User**). For system greetings D, E, F, and G, you may select **Sys** to turn on the pre-recorded greetings, **User** to record your own version of the greeting, or **Off** to turn them off. If your system does not have the capability to allow you to record

your own version of the system greeting (D, E, F, and G), you may select **Sys** to turn on the pre-recorded greetings, or **Off** to turn them off. A greeting that is turned off is not erased. The time used by the greeting is not returned to the 96 second time pool.

5. Press . The display shows **Greeting A: User**. Your choices are **PLAY**, **REC**, and **OK**. Press **PLAY** to play the greeting.

6. Press **REC** to record a greeting. As soon as you press **REC** the previous recording is erased. Making a recording of less than 2 seconds duration also erases the previous greeting.

7. Press **OK** when you have completed your recording.

8. To continue recording greetings, press **NEXT**, then **REC** to record the next greeting.

9. Press **OK** when you have completed your recording.

Example: "Our business hours are 8 a.m. to 5 p.m., Monday through Friday".

10. To continue recording greetings, press **NEXT**, then **REC** to record the next greeting, for example the caller menu.

The greeting used with the caller menu indicates the destinations you have chosen for each digit.

Example: "To reach one of our sales agents, press 1. To contact our accounting office, press 2. To reach Joan Smithers, press 3. To talk to an attendant, press 0. To repeat this menu, press star."

11. Continue recording any remaining greetings. Remember that some greetings are shared by both System Answer and CCR. Ensure that the recording is appropriate for both features.



Tip - If you have recorded your greetings, you can press NEXT from the display showing **Auto att grtns** and go right into the menu for programming destinations for CCR.

Programming or changing CCR destinations

1. Press and enter the System Coordinator password (the default password is).
2. Press NEXT until the display shows **CCR tree**. The choices are **SHOW**, **EXIT**, and **PREV**.
3. Press . The display shows **Dial 0:** and the current destination when the caller presses zero. Your choices are **CHNGE** and **NEXT**.
4. Press CHNGE to select the appropriate destination.

Each number from zero to nine and can direct a call to the attendant telephone or one of the nine CCR groups. The can be set up to make the system play the CCR greeting again (**Repeat**). If a digit is set to **None**, it has no destination.

Using NEXT and CHNGE, select the destinations for the remaining digits.

Testing your custom System Answer and CCR

If you have more than one external line, you can call in to hear your greetings by dialing the number used by external callers to call the attendant set or a line that is answered using CCR.

To call systems with only one external line, you must go to a telephone that is not connected to your system.

Time savers for making calls

Storing a number on a memory button for Autodial

You can program memory buttons for one-touch dialing of internal or external telephone numbers.

Buttons used for lines, answer or Handsfree/Mute cannot be used as autodial buttons.

If the power to your Norstar system is off for more than three days, autodial numbers (as well as some other system programming) may be lost from the memory.

Adding an autodial button

* 1 or * 2

1. Press * 1 to program an external number or * 2 for an internal number.
2. Choose a button and then enter the number as if you were dialing it.

When programming Autodial you can use:

- Last Number Redial
- Saved Number Redial
- destination codes (choose as the line)
- host system signalling

Choosing a line for Autodial

To include a line selection for an external number, press the line or intercom button before you enter the number. To select a line pool, press a programmed line pool button, or press

and enter a line pool access code.

If you select a line before pressing the autodial button, the call goes out on the line you have selected instead of the line that is part of the autodialer programming.

For the M7100 telephone, an external autodialer can be programmed only by using a line and not a line pool.



Tip - If you do not include a line selection in an autodial number, the call uses your prime line (if you have one).

Using intercom as the line for Autodial

If you press as the line for an external autodial number, you must include a valid line pool access code or a destination code. If line pool access codes or destination codes are changed, remember to reprogram autodial numbers.

Displays

987_
QUIT BKSP OK

Continue to enter digits until the number is complete. Press or **BKSP** to erase an incorrect digit. Press or **OK** when you are finished.

Autodial full

The memory allotted to autodial numbers in your Norstar system is full.

Button erased

While programming external Autodial, you erased the button by pressing or **OK** before entering any digits.

Enter digits QUIT	OK	Enter the number you want to program (choosing the line first if necessary) exactly as you would if you were making a call.
Intercom #: _ QUIT		Enter the internal telephone number you want to program.
Invalid number		You are programming an internal autodial button and have entered a number that is not an internal number on your system. Enter a valid internal number. If the number you are entering is a destination code, use external autodial.
Press a button QUIT		Press the memory button you want to program.
Program and HOLD		Enter the number you want to program onto the button, then press Hold .
Program and OK QUIT	OK	Enter the number you want to program onto the button, then press Hold or OK . You may include a line or line pool selection in an autodial sequence by selecting the line before entering any digits.
Programmed		The number is stored on the button.

For other displays, see "Common feature displays" on page 215.

Using Last Number Redial

Feature 5

Press Feature 5 to redial the last external number you dialed.

Last Number Redial records a maximum of 24 digits.



Tip - If you have a programmed Last Number Redial button, you can use Button Inquiry (Feature * 0), then press the Last Number Redial button followed by #) to check the last number before you dial it.

Preventing a telephone from using Last Number Redial

Last Number Redial can be restricted at individual telephones.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press Feature * * 2 6 6 3 4 4 .
2. Press 2 3 6 4 6 (the default System Coordinator password).
3. Press Show and enter the internal number of the telephone you want to program.
4. Press Show .
5. Press Next three times. The display shows **Restrictions**.
6. Press Show twice.
7. Press Next . The display shows **Allow last no:**.
8. Press CHANGE to choose Y (Yes) or N (No).

Displays

Hidden number

The last number you dialed was a speed dial number that displayed a name rather than the number. The number is dialed correctly, but you cannot see it.

No last number

You have not dialed an external telephone number since the last power interruption or system reset.



Tip - You can copy a number onto an autodial button using Last Number Redial.

Using Speed Dial

Norstar provides two types of speed dialing: system and personal. System Speed Dial programming allows you to assign two-digit speed dial codes to the external numbers your co-workers call most frequently. User Speed Dial programming allows individuals to program their own speed dial numbers.

Speed dial numbers are subject to the same restriction filters as regularly dialed numbers. Your installer or customer service representative can program system speed dial numbers to bypass dialing restrictions.

Speed dial numbers may include host system signaling codes.

Making a speed dial call

Feature 0

You can quickly dial external telephone numbers that have been programmed onto speed dial codes.

1. Press Feature 0 .
2. Enter the appropriate two-digit speed dial code.

Changing and adding System Speed Dials

System Speed Dial codes are numbered from 01 to 70. The system coordinator assigns numbers to System Speed Dial codes for the entire system. See “Adding or changing a system speed dial” on page 15.



Tip - *There is no difference between using User Speed Dial and using System Speed Dial. They differ only in how you program them.*

Adding or changing User Speed Dial

Feature * 4

To add or change a User Speed Dial number on your telephone:

1. Press Feature * 4 .
2. Enter a two-digit code from 71 to 94 that you want to associate with a telephone number.
3. To include a line selection for this number, press the line or intercom button. To select a line pool, press a programmed line pool button, or press Intercom and enter a line pool access code. For the M7100 telephone, you can only select a line pool.

4. Enter the number you want to program.

5. Press or OK.

Displays

01:9_
CANCL BKSP OK

Continue entering the number you want to program. You can change the number by pressing BKSP or . When you are finished, press or OK.

Enter digits
QUIT OK

Enter the telephone number you want to program exactly as you would if you were dialing it normally. When you are finished, press or OK.

Invalid code

You have entered a code outside the code range (01-70 for system, 71-94 for personal).

No number stored

There is no number stored on the speed dial code you have dialed.

Program and HOLD

If you want to program a line or line pool selection for this speed dial number, select the line or line pool. Otherwise, enter the telephone number exactly as if you were dialing it normally. When you are finished, press .

Program and OK
QUIT OK

If you want to program a line or line pool selection for this speed dial number, select the line or line pool. Otherwise, enter the telephone number you want to program exactly as if you were dialing it normally. When you are finished, press OK.

Select a line

There is no line associated with the speed dial number you are trying to use. Select a free external line or line pool and enter the speed dial feature code again.

Unknown number

The system cannot dial the number stored. Reprogram the number.

For other displays, see "Common feature displays" on page 215.

Using Saved Number Redial

Feature 6 7

You can save the number of the external call you are on (provided you dialed the call) so that you can call it again later. Each telephone can save one number at a time with Saved Number Redial, not one number for each line.



Tip - You can copy a number onto an autodial button using Saved Number Redial.

Saving a number

Press Feature 6 7 while you are on the call.

Saved Number Redial records a maximum of 24 digits.

Dialing a saved number

Press Feature 6 7 when you are not on a call.

If you have a programmed Saved Number Redial button, you can use Button Inquiry (Feature * 0) to check the last number before you dial it.

Preventing a telephone from using Saved Number Redial

Saved Number Redial can be restricted at individual telephones.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press Feature * * 2 6 6 3 4 4 .

2. Press (the default System Coordinator password).
3. Press and enter the internal number of the telephone you want to program.
4. Press .
5. Press three times. The display shows **Restrictions**.
6. Press twice.
7. Press twice. The display shows **Allow saved no.**
8. Press **CHANGE** to choose **Y** (Yes) or **N** (No).

Displays

Hidden number

You have saved a speed dial number that displays a name rather than the number. The number is dialed correctly, but you cannot see it.

No number saved

You have tried to save the number of an incoming call. You can only save numbers that you have dialed yourself.

Handling many calls at once

Using Hold

You can temporarily suspend a call by pressing .

When a call is on hold, its indicator flashes on all telephones that have access to the line. The call can be retrieved from any of these telephones.

On the M7100 telephone, alternates between two lines; one active, one on hold. The M7100 telephone cannot retrieve a call placed on hold by another telephone.



Tip - Answered Hunt Group calls can be placed on hold at the answering Norstar set. For more information on Hunt Groups see "Programming Hunt Groups" on page 147.

Retrieving a held call

You can connect to a call on hold by pressing the flashing line button of the held call.

Holding automatically

If your line has been programmed with full autohold, you can switch from one call to another and have your calls put on hold automatically.

Press the line button of the caller you want to speak to. Your current caller is put on hold automatically.

Listening on hold

If you have been put on hold, you can hang up the receiver while you wait for the other person to return.

1. Press .

2. Hang up the receiver.
3. Press the line button of the call. You may hear indications from the far end that you are on hold (for example, tones or music).
4. When the person you were talking to returns you hear them through your telephone speaker. Lift the receiver and talk.



Tip - If Automatic Handsfree has been assigned to your telephone, you can use the Handsfree/Mute feature instead of Listen on Hold.

Holding a call exclusively

Feature

You can put a call on Exclusive Hold so that it can be retrieved only at your telephone.

Press or . The line appears busy on all other telephones, and the call cannot be picked up by anyone else in the office.

Displays

On hold: LINENAM

You have placed one or more calls on hold. The name of the line that has been held the longest is displayed.

Using Call Queuing

Feature

If you have more than one call ringing at your telephone, you can choose the call that has the highest priority by pressing

.

Call Queuing answers incoming external calls before callback, camped, and transferred calls.

Transferring calls

Using the transfer feature

Feature

Transfer allows you to direct a call to a telephone in your Norstar system, within the Norstar network, or external to Norstar.

Transferring a call

1. Press .
2. Call the person to whom you want to transfer the call.
3. If you want to talk to the person to whom you are transferring the call, wait for them to answer, and speak to them before proceeding.
4. When you are ready to complete the transfer, press or JOIN.

You cannot use Last Number Redial, Saved Number Redial, a speed dial code, Priority Call or Ring Again to dial the number for a transfer.

Depending on how a private network call is routed, it may not always be possible for the system to return a transferred call to you if the transferred call is not answered. When transferring a call to a private network destination, stay on the line until the person to whom you are transferring the call answers.

You cannot use the Line Pool feature code to access a line pool for a transfer. To use a line pool, use a programmed line pool button, or press and enter a line pool access code.

If you have an auxiliary ringer programmed to ring for calls on an external line, and you transfer a call on that line without announcing the transfer, the auxiliary ringer rings for the transferred call.

Transferring external calls

If an external call is transferred to a busy telephone, or not answered after a few rings, the call automatically rings again at the telephone from which it was transferred, and the display indicates that the telephone was busy or that no one answered.

When transferring an external call to an external number, the external call you are trying to transfer must be an incoming call on a disconnect supervised line.

While on a conference call, you can remove yourself from the conference and connect the other two callers using the Transfer feature. However, if both of the other people are from outside the system, at least one of the outside callers must have called you and both of the outside calls must be on disconnect supervision lines.

Note: Transfer via Hold on DID lines is not supported. Once a call is answered the line appearances on all other sets are free immediately to take other calls. This allows a greater number of calls to be received. Use the Call Park feature to transfer a call.

In certain situations, you may experience lower volume levels when transferring an external call to an external person, or when transferring two external callers from a conference call.

Canceling a transfer

You can reconnect to the person you are trying to transfer at any time before the transfer is complete.

1. Press # or CANCL.
2. If you are not reconnected to your original call, press and then press the line key of the original call, which is now on hold.

Displays

21>22
CANCL RETRY JOIN

You are talking to the person you want to transfer the call to. Press RETRY if you decide to transfer the call to someone else. Press or JOIN to transfer the call.

21 no reply
CALLBACK

The person to whom you tried to transfer a call did not answer. Press CALLBACK or the flashing line button to reconnect to the call. On the M7100 telephone, lift the receiver.

Do not disturb
CANCL RETRY JOIN

The person to whom you tried to transfer a call has Do Not Disturb active on their telephone. Press JOIN to transfer the call anyway. Press RETRY to transfer the call to someone else. Press CANCL or the flashing line button to reconnect to the call (on the M7100 telephone, press #).

Invalid number
CANCL RETRY

You entered an invalid internal number. Press RETRY and enter the number again.

Line001 hung up

The external caller you were transferring hung up before the transfer was complete.

Line001>21
CANCL RETRY JOIN

Press JOIN to transfer the call on line 001 to telephone 21. Press RETRY if, after talking to the person at extension 21, you decide to transfer the call to someone else.

Not in service
CANCL RETRY

The telephone to which you are trying to transfer a call is out of service.

Restricted call
CANCL RETRY

You cannot transfer the call because of telephone or line restrictions.

Still in transfer
CANCL RETRY

Complete the transfer in progress before you access a new feature, answer another alerting call or select an outgoing line.

Transfer denied
CANCL RETRY

Your transfer cannot be completed for one of these reasons:

- All the resources needed to perform a transfer are in use. Try again later.
- You have tried to transfer an external call to another external party. Some restrictions apply.
- You cannot transfer your conference call.

Transfer to:2_
CANCL RETRY

Press **RETRY** if you entered the wrong internal number or if the person to whom you are transferring the call is unavailable.

For other displays, see "Common feature displays" on page 215.

Using Camp-on

Feature 8 2

You can transfer an external call to another telephone, even if all its lines are busy.

1. Press Feature 8 2.
2. Dial the number of the telephone you want to camp the call to.

Camped calls appear on a line button on the receiving telephone, if one is available. If there is no line button available, you receive a message on the display and hear Camp tones.

Each Norstar telephone can handle only one camped call at a time.

Displays

21 Camp max
CALLBACK

You tried to camp a call to a telephone that already has a camped call. The call has come back to you. Press the CALLBACK button or the line button to reconnect to the call. On the M7100 telephone, just pick up the receiver.

21 DND
CALLBACK

The person to whom you redirected a call has Do Not Disturb active on the telephone. The call has come back to you. Press the CALLBACK button or the line button to reconnect to the call. On the M7100 telephone, just pick up the receiver.

Camp denied

You have tried to camp an internal call. You can only camp external calls.

Camp to:
CANCEL

Dial the number of the internal telephone to which the call is sent.

Camped: 21
CALLBACK

The telephone to which you camped a call did not answer the call. The call has come back to you. Press CALLBACK or the line button to reconnect to the call. On the M7100 telephone, just pick up the receiver.

Line001 hung up

A call you camped has come back to you, but the caller hung up before you could reconnect.

Not in service
CALLBACK

The telephone to which you have camped a call is out of service or is being used for programming. The call has come back to you. Press CALLBACK or the line button to reconnect to the call. On the M7100 telephone, just pick up the receiver.

Release a call

The line that the camped call is on is in use or that line does not appear at your telephone. Release the line or release an internal line.

For other displays, see "Common feature displays" on page 215.

Parking a call

Feature

You can suspend a call so that it can be retrieved from any telephone in your system.

1. Press .
2. Use the Page feature () or press **PAGE** to announce the retrieval code displayed by your telephone.

Retrieving a parked call

1. Select an internal line. (On the M7100 telephone, pick up the receiver.)
2. Dial the Call Park retrieval code.

Using Call Park

When you park a call, the system assigns one of nine codes for the retrieval of the call. These codes consist of the Call Park prefix, which may be any digit from 0 to 9, and a two-digit call number between 01 and 09. For example, if the Call Park prefix is 4, the first parked call is assigned Call Park retrieval code 401.

The Norstar system assigns Call Park codes in sequence, from the lowest to the highest, until all the codes are used. This round-robin approach means that a greater variety of codes are used, which makes it easier for a call to reach the right person when more than one incoming call is parked.

The highest call number (the Call Park prefix followed by 09) is used only by telephones or devices connected to the system using an analog terminal adapter (ATA).

Your installer or customer service representative programs both the Call Park prefix and the delay before parked calls are returned to the originating telephone. External calls parked for longer than the programmed delay are returned to your telephone.



Tip - Answered Hunt Group calls are parked in the same manner as other calls. For more information on Hunt Groups see "Programming Hunt Groups" on page 147.

Call Park can be disabled by your installer or customer service representative.

Displays

Already Parked

The person you were talking to has already parked your call. You cannot park the same call.

Get call first

You have attempted to use Call Park with no active call on your telephone. If the call you want to park is on hold, reconnect to it before you park it.

Invalid number

You have entered an invalid retrieval code.

No call on: 101

There was no call on the retrieval code you entered.

Park denied

You have tried to park a conference call. Split the conference and park the calls separately. The person who retrieves the calls can reconnect the conference.

Parked on: 402
PAGE EXIT

Record the code shown. Use Page (Feature) or press PAGE to announce the call and its retrieval code.

Parking full

All available retrieval codes are in use.
Transfer the call or take a message instead.

For other displays, see "Common feature displays" on page 215.

Using Callback

When you direct a call you have answered to another telephone, the system monitors the call to make sure it is answered. If no one answers the call within a set length of time, the system directs it back to you.

Callback generates a variety of displays. Most occur after a set delay and are listed in the index. Some occur immediately if the telephone to which you are directing a call is out of service or otherwise unavailable. These are listed with the descriptions of the specific features like Transfer or Camp-on.

Forwarding your calls

Forwarding your calls to another Norstar telephone

Feature 4

Press Feature 4 and enter the number of the internal telephone to which you want your calls forwarded.

Use Line Redirection to forward calls outside the system. Line redirection takes precedence over Call Forward.

Canceling Call Forward

Press Feature # 4 .

Using Call Forward at your telephone

When you use Feature 4 , all calls go to the destination you select, regardless of how Forward on busy and Forward no answer are programmed.



Tip - If your Norstar set is a member of a Hunt Group, the Call Forward all calls setting is overridden by the Hunt Group routing for Hunt Group calls. For more information on Hunt Groups see "Programming Hunt Groups" on page 147.

If the telephone to which you forwarded your calls does not have the same external lines as your telephone, the forwarded calls appear on intercom buttons.

If a call is forwarded, it does not ring but the line indicator flashes on your telephone. You can answer the call by pressing the button next to the flashing indicator.



Tip - *If you are one of a group of people who regularly forward their calls to one another, be aware that it is possible to set up forward loops where a call is forwarded from one telephone to another in a circle, and is never answered anywhere.*

Overriding Call Forward

If you call someone who has their calls forwarded to you, your call rings at that person's telephone even though they are forwarding their calls to you.

Changing the automatic Call Forward settings for a telephone

Call forwarding occurs automatically when a call is not answered or the line is busy. These automatic options are changed in programming.

For step-by-step instructions, see “Change where a call goes when there is no answer” on page 22.

Changing Forward no answer

Forward no answer redirects unanswered calls to another telephone on your Norstar system.



Tip - *If the Norstar set is a member of a Hunt Group, the Call Forward no answer feature is overridden and the Hunt Group call continues to ring until the hunt time has expired. For more information on Hunt Groups see “Programming Hunt Groups” on page 147.*

For step-by-step instructions for changing Forward no answer see “Change where a call goes when there is no answer” on page 22. Line Redirection takes precedence over Forward no answer.

Changing the delay before a call is forwarded

You can assign the number of times that the incoming call rings at your telephone before the call is forwarded. To estimate the delay time in seconds, multiply the number of rings by six.

For step-by-step instructions, see “Change the number of times the telephone rings before it is forwarded” on page 22.

Forward on busy

Forward on busy redirects your calls to another telephone on your Norstar system when you are busy on a call, or when you have Do Not Disturb activated at your telephone.

For step-by-step instructions, see “Making changes to Call Forward on Busy” on page 23.

Line Redirection takes precedence over Forward on busy. Calls that are redirected by Line Redirection are not affected by any Call Forward features or Call Forward programming.

Telephones that have Forward on busy active can receive priority calls. If you are busy on a target line call, another call to that target line is redirected to the prime telephone for that target line.



Tip - If the Norstar set is a member of a Hunt Group, the Call Forward on busy feature is overridden and the Hunt Group call continues to ring until the hunt time has expired. For more information on Hunt Groups see “Programming Hunt Groups” on page 147.

DND on Busy

When you are busy on a call and a second call comes in, your telephone rings softly to alert you to the second call. If you find this second ring distracting, you can have the system prevent a second call from disturbing you by assigning Do Not Disturb (DND) on Busy to your extension.

When DND on Busy is turned on for the set, internal and private network callers hear a busy tone instead of ringing when you are on the telephone. External callers are transferred to the prime set used in your system.

For step-by-step instructions, see “Change Do Not Disturb on Busy” on page 25.

If you use DND on Busy, the line indicator for an external incoming call flashes, but your telephone does not ring.

Forward on busy takes priority over DND on Busy.

If an external call uses a target line, the call is processed according to the programming of the target line. If the target line is busy, the caller may hear a busy tone or be routed to the prime set for the target line regardless of the DND on Busy programming for the telephone.



Tip - *If a Norstar set is a member of a Hunt Group and the set activates this feature, the set does not receive notification of incoming Hunt Group calls while on a call. The DND on busy feature overrides the Hunt Group. For more information on Hunt Groups see “Programming Hunt Groups” on page 147.*

Call Forward and Voice Mail

If you have a voice mail system and want it to pick up unanswered calls automatically

- use the internal number of your voice mail as the destination when you program Forward no Answer and Forward on busy,
- or
- make the ring delay greater than the delay used by your voice mail system, if your voice messaging system or service automatically retrieves calls.

Displays

Forward denied

There are several reasons why you may get this message. For instance, you cannot forward your calls to a telephone that has been forwarded to your telephone.

Forward>21

CANCL

Your calls are being forwarded to telephone 21.

Not in service

Two or more telephones are linked in a forwarding chain, and one of them is out of service or is being used for programming.

For other displays, see "Common feature displays" on page 215.

Line Redirection

Line Redirection allows you to send your external calls to a telephone outside the office. You may choose to redirect all your external lines or only some of them.

Line Redirection takes precedence over the Call Forward feature. If both features are active on a set, incoming external calls on redirected lines are routed to the specified Selective Line Redirection (SLR) external destination. Incoming internal calls are forwarded to the specified Call Forward destination.

You cannot use the Line Redirection feature code at either an M7100 telephone or a telephone connected to an ATA.

Turning on Line Redirection

Feature

1. Press .
2. Select the outgoing line to be used for redirected calls.
3. Enter the number to which calls are to be redirected (the ways you can do this are listed below).
4. Select the lines to be redirected.

Enter the telephone number to which you want to redirect calls by using one of the following methods.

- Press an external autodial button.
- Enter an external telephone number (using no more than 24 digits) then press or **OK**.
- Press or **OK** if the line you have chosen as the outgoing line is a private network line that does not require you to dial digits.

If you use **ALL** to redirect all your lines, it is important that you wait until all the lines on your telephone light up before pressing or **OK**. If you press or **OK** before all the lines light up, those lines not lit are not redirected.



Tip - The line chosen for redirecting calls on other lines can be used normally when it is not busy on a redirected call. To avoid redirection failing because the chosen line is in use, choose a line pool with several lines in it.

The system does not check that the number you give for line redirection is a valid one. If you redirect to an invalid number, redirection fails. Using an autodial button to enter the redirection number helps avoid this possibility. An autodial button used for line redirection must be programmed to use a specific line.

Canceling Line Redirection

Feature # 8 4

1. Press Feature # 8 4 .
2. Select the lines you no longer want to be redirected.

Allowing a telephone to redirect calls

You can turn a telephone's ability to redirect calls on and off.

You need the programming template found at the front of this guide. See "Getting started with Norstar" on page 1 for more information.

1. Press Feature * * 2 6 6 3 4 4 .
2. Press 2 3 6 4 6 (the default System Coordinator password).
3. Press Show and enter the internal number of the telephone you want to program.
4. Press Show twice.
5. Press Back three times. The display shows **Allow redirect:**.

6. Press CHANGE to select **Y** (Yes) or **N** (No).

Turning the redirect ring for a telephone on or off

You can program a telephone to ring briefly (200 milliseconds) when a call is redirected on one of its lines.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press 2 3 6 4 6 (the default System Coordinator password).
3. Press and enter the internal number of the telephone you want to program.
4. Press twice.
5. Press twice. The display shows **Redirect ring:**.
6. Press CHANGE to select **Y** (Yes) or **N** (No).



Tip - If a telephone has redirect ring enabled, it rings briefly for redirected calls on one of its lines even if another telephone set up the line redirection.

Displays while redirecting lines

Intercom

You selected the intercom button as the facility to place the call on. Enter a line pool code or a destination code.

Line Redirection

QUIT ADD REMOVE

Press * or ADD to begin redirection. Press # or REMOVE to cancel a previous redirection.

No line to use

You have one external line on your telephone, but you need a second line to perform line redirection. Redirect your external line using a line pool as the outgoing line.

Outgoing line

You are attempting to redirect a line and the line you have chosen is the outgoing line you have selected as a destination. You cannot redirect a line to itself. Select another line.

Pool code: _
QUIT

Enter a valid line pool access code.

Redir by 21
OVERRIDE

You have attempted to redirect a line, but someone else has already redirected that line. Press ***** or **OVERRIDE** to override the previous redirection and redirect the line as you want.

Redirect denied

You can redirect calls only on individual lines.

Select line out
QUIT

Select the line to be used to redirect calls out of the system.

Select line(s)
QUIT ALL

Press the lines to be redirected. To undo a line selection, press it again. Press **ALL** to redirect all your lines.

Select line(s)
ALL OK

Continue to press the lines to be redirected. Press **Hold** or **OK** when you are finished.

Unequipped line

The line you are attempting to redirect cannot be redirected because the hardware does not support redirection.

Displays while canceling redirection

Select line(s)
QUIT ALL

Press the lines that are no longer to be redirected. The lines light up as you press them. Once you cancel redirection for a line you cannot restore it by pressing the line again. Press ALL to cancel redirection for all your lines. When you are finished, press or OK.

Select line(s)
ALL OK

Continue to press the lines that are no longer to be redirected. Press or OK when you are finished.

For other displays, see "Common feature displays" on page 215.

How Line Redirection is different from Call Forward

Call Forward forwards all calls that arrive at a particular telephone to another telephone within the Norstar system. Line Redirection redirects only the lines you specify, no matter which telephones they appear on, to a telephone outside the Norstar system. Line Redirection takes precedence over Call Forward.

Using Line Redirection

You redirect lines at a telephone, but once redirected, the lines are redirected for the entire system.

You can only redirect lines that appear at line buttons on your telephone.

You can answer the telephone if it rings while you are in the middle of programming Line Redirection, but none of the Norstar call handling features are available until the feature times out. If you need to use a Norstar feature to process the call, quit Line Redirection programming by pressing . Do not press or you disconnect the call you are trying to process.

While you are programming Line Redirection you do not receive any indication of calls that do not actually ring at your telephone.

Be careful to avoid redirection loops. If for example, you redirect your lines to your branch office and your branch office redirects its lines to you, you can create a redirection loop. If these calls are long distance, you end up paying charges.

In certain situations, callers may experience lower volume levels when you redirect calls to an external location.

Communicating in the office

Paging

Feature

Paging allows you to make announcements over the Norstar system using the telephone speakers, or your loudspeaker system, if one is available.

Making a page announcement

1. Press .
2. Choose a page type. Page types are:
 - through the telephone speakers (internal page)
 - through an external speaker (external page)
 - both internal and external (combined page)
3. If necessary, choose a zone.
4. Make your announcement.
5. Press .



Tip - *Instead of entering the Page feature code followed by the page type, you can enter the following shortcut codes.*

Internal and zone (1 to 3)

External (code 2 has no zones)

Combined and zone (1 to 3)

Activating and deactivating the ability to page

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press (the default System Coordinator password).
3. Press and enter the internal number of the telephone you want to program.
4. Press twice.
5. Press seven times. The display shows **Paging**.
6. Press **CHANGE** to select the setting: Y (Yes) or N (No).

Creating page zones

Each telephone can be assigned to one of three zones for receiving pages.



Tip - Hunt Group DNs cannot be included in a page zone. For more information on Hunt Groups see “Programming Hunt Groups” on page 147.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press (the default System Coordinator password).
3. Press and enter the internal number of the telephone you want to program.

4. Press twice.
5. Press six times. The display shows **Page Zone**.
6. Press **CHANGE** to select the setting: **1**, **2**, **3**, or **None**.

You can make a telephone part of a page zone only if the telephone has paging set to **Y** (Yes).

A zone is any set of Norstar telephones that you want to group together for paging, regardless of their location.

Your installer programs whether a tone sounds before a page begins, and the maximum number of seconds a page can last before it is automatically turned off.



Tip - Make sure that everyone who needs to make page announcements has a list showing which telephones are in which page zones.

Displays

Enter zone:

Enter the desired page zone number (1- 3) or press **ALL**.

Invalid zone

You have entered a page zone code that is not between 1 and 3.

Page choice:
SETS SPKR BOT
..

Select the type of page you want. See the list in "Making a page announcement".

Page timeout

The time allotted for paging has expired.

Paging **ALL**

You are making a page. The display shows the page zone you have chosen. Press or when you are finished.

Paging busy

A page is already being made in the page zone you have requested.

For other displays, see "Common feature displays" on page 215.



Tip - *You can make an announcement to one person by placing a voice call to their telephone.*

Using Page with external paging equipment

When you make a page that uses external paging equipment (external page or combined page), the Long Tones feature is automatically activated for the external paging system only. This allows you to control optional equipment with the Long Tones feature.

Sending messages using the display

The Messages feature allows you to leave a message on the display of another Norstar telephone, and indicates if you have any messages waiting. The Messages feature uses a message waiting list to keep a record of your internal messages and your (external) voice mail messages (if you subscribe to a voice message service with visual message waiting indication).

Sending a message

Feature 1

You can leave a message on the display of another telephone in your Norstar system. You can send up to four messages to different telephones, including your voice message center.

If your telephone is a direct-dial telephone or a central answering position (CAP), you can send up to 30 messages.

If your reply to a message is forwarded or is answered at another telephone using the Call Pickup feature, the message remains on your telephone until you cancel it or successfully contact the telephone that sent the message.

1. Press **Feature** **1**.
2. On a telephone with a two-line display, press **ADD**. (This step is not necessary on a telephone with a one-line display.)
3. Enter the internal number of the person you want to send the message to. The person's display reads
Message for you.

Canceling a message you have sent

1. Press **Feature** **#** **1**. The display reads **Cancel for:**.
2. Enter the internal number of the person to whom you sent the message.

Viewing your messages

Feature **6** **5**

You can receive up to four messages from different telephones, including your voice message center. A single message from your voice message center may pertain to several voice messages.

On a telephone with a one-line display

1. Press **Feature** **6** **5**. The display shows the first message.
2. Press ***** or **#** to move through your messages.

On a telephone with a two-line display

1. Press **MSG**. The display shows the first message you received.

2. Press NEXT to move through your messages.

Replying to a message

You can call the person (or your voice message center) who sent a message while you are viewing the message.

On a telephone with a one-line display

Press .

On a telephone with a two-line display

Press CALL.

If you want to call your voice message center using a line other than the programmed line, exit your message list and dial the voice message center telephone number using normal dialing methods.

Removing items from your message list

You can erase a message while you are viewing it in your message list. If the message is from your voice message center, this only erases the message notification at your telephone. You need to erase the voice message at your voice message center. Refer to your voice message center documentation.

On a telephone with a one-line display

Press .

On a telephone with a two-line display

Press ERASE.

Viewing messages you have sent

Feature

1

On a telephone with a two-line display, you can view the messages you have sent.

1. Press

Feature

1

.
2. Press SHOW to display your first sent message.
3. Press NEXT to move through your sent messages.

Displays

Cancel denied

You have entered an invalid number when attempting to cancel a message.

Cleared>LINENAM
NEXT

You have cleared an external message from your message waiting list. The message itself exists in your voice message center until you erase it there.

In use: 21

You are trying to call from your message waiting list. The line that you are trying to use is being used by the identified Norstar user.

L001:LINENAMUMs9
NEXT CALL CLEAR

You are viewing your message list. The display shows the number and name of the line that was used for your voice mail message.

Message denied

You have tried to send a message to an invalid internal number or to a telephone that is out of service.

Message list
SHOW ADD EXIT

SHOW appears only if you have outstanding messages. Press SHOW to review messages you have sent. Press ADD to send a new message.

Message to:

Enter the internal number of the telephone to which you want to send a message.

Messages & Calls MSG CALLS

You have one or more messages and one or more new Call Logs. Press

to change the first line of the display to the current time and date.

No button free

You have no line button free with which to reply to a message.

No number stored

There has been no number programmed for the voice message center. Contact your voice messaging service provider.

Start of list NEXT

You are at the beginning of your list of messages. Press NEXT to move through your messages.

Their list full

You are trying to send a message to a user whose message waiting list is full.

Your list full

You have tried to send a message but your telephone's list of sent messages is full. Cancel one of the messages you have sent, if possible, or wait until you have received a reply to one of those messages.

For other displays, see "Common feature displays" on page 215.

Using Voice Call

You can make an announcement or begin a conversation through the speaker of another telephone in the system.



Tip - Hunt Groups cannot accept voice calls. Answer buttons have no appearances for voice calls, and the set does not ring for voice calls. For more information on Hunt Groups see "Programming Hunt Groups" on page 147. For more information on Answer buttons see "Answer buttons" on page 38.

Making a Voice Call

Press .

Muting Voice Call tones

When a voice call begins at your telephone, you hear a beep every 15 seconds as a reminder that the microphone is on.

To stop it from beeping, pick up the receiver or press

.

Answering a Voice Call without touching your telephone

If Handsfree Answerback is assigned to your telephone, you can respond to a voice call without touching the telephone.

Handsfree Answerback is not available to the M7100 telephone.

When someone makes a voice call to you, simply start talking. Your telephone's microphone picks up your voice.



Tip - Once you have answered a voice call, you can put it on hold, transfer it, or otherwise treat it as a normal call.

Preventing Voice Calls to your telephone using Voice Call Deny

Press . Voice calls ring like regular internal calls. Your other calls proceed normally.

Canceling Voice Call Deny

Press .

Displays

Dial voice call

Dial the internal number or press the internal autodial button of the person to whom you want to speak.

Microphone muted

Your handsfree microphone is muted. Press  or pickup your receiver to respond to the voice call.

No voice call

The telephone receiving the call cannot accept voice calls for one of the following reasons: it is active or ringing with another call; Call Forward is turned on; Do Not Disturb is turned on; Voice Call Deny is turned on; it is not a Norstar telephone.

Your call proceeds automatically as a regular ringing call.

Voice call

The line is open for you to speak.

Tracking your incoming calls

Using Call Log

Telephones can automatically log Call Display information for calls on an external line. The line must appear on that telephone but it does not have to be a ringing line.

If your system is equipped with the appropriate equipment and you have subscribed to the call information feature supplied by your service provider, you are able to capture information about incoming callers in your call log. The same feature is supplied by an ISDN service package that comes with calling line identification (CLID).

Call Log creates a record of incoming external calls. For each call the log could contain:

- sequence number in the Call Log
- name and number of the caller
- indication if the call was long distance
- indication if the call was answered (and identity of who answered it)
- time and date of the call
- number of repeated calls from the same source
- name of the line that the call came in on

Call Log can help you to

- keep track of abandoned or unanswered calls
- track patterns for your callers (for example volume of calls and geographical location of calls)

- record caller information quickly and accurately
- build a personal telephone directory from log items

The long distance indicator and the caller's name and number, may not be shown in the log, depending on the Call Display services provided by your local telephone company and the caller's local telephone company.

To use the features on the following pages, your telephone must have spaces available in its Call log. Your installer or customer service representative programs each telephone with an appropriate number of spaces.

Call Log options

Feature * 8 4

You can select the type of calls to be stored in your Call Log. Choose from four Autolog options: **No one answered**, **Unanswered by me**, **Log all calls**, **No autologging**.

1. Press Feature * 8 4 . The display shows the current option.
2. Press # or NEXT to change the option.
3. Press Feature or OK to select the display option.

Logging a call manually

Feature 8 1 3

If your calls are not automatically logged, you can manually log call information when you are connected to an external call. Storing information for your current call can be helpful in many situations. For example, you may want to:

- record a caller's information without using paper and pencil

- record only selected calls that you choose, as opposed to using Call Log automatically
- quickly record caller information before a caller hangs up

Press to log an external call manually.

Deleting old log items

Your log has a set number of items that it can hold. When it becomes full, new calls cannot be logged. When your log is full, Autobumping automatically deletes the oldest Call Log item when a new call is logged.

Press to enable autobumping.

Press to disable autobumping.

Viewing your Call Log

To view your log

1. Press . The display shows the number or previously read items (old) and the number of new, unread items (new) in the log.
2. Press or OLD to view old items; press or NEW to view new items.
3. Press or RESUME to display the last item you viewed, the last time you viewed your Call Log.

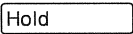
Names and numbers for external callers are displayed only if you have subscribed to Call Display services from your local telephone company.

Viewing a Call Log item

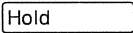
Press   or **MORE** to view the information for a call log item.

Erasing log items

You should routinely erase log items that you've read, to make space for new items in your log.

1. Display the item you want to erase.
2. Press  or **ERASE**.
3. Press  to exit.

If you accidentally erase an item, you can retrieve it.

1. Press  or **UNDO** immediately after accidentally erasing an item.
2. Press  to exit.

Making a call using Call Log

You may find it helpful to place calls from within your Call Log. The number stored for each call may vary depending on the type of call. For example, if the call was placed from a Centrex or PBX system, the first few numbers may need to be trimmed before you can make the call. If the number you want to call is long distance, or if you want to use a line pool, you may need to add numbers.

To place a call

1. Display the log item for the call you want to place.
2. Display the associated telephone number.
3. Press   or **TRIM**, once for every digit that you want to remove.
4. Dial any extra digits required.

5. Press an external line or line pool button.
6. Lift the receiver. (This is not necessary if Handsfree is programmed at your telephone.) The displayed number is dialed.

Creating a password to your Call Log

Feature * 8 5

You have the option of accessing your Call Log through a password.

1. Press Feature * 8 5. The display reads **New Passwrd:**.
2. Enter your four-digit password. The display reads **Repeat New:**.
3. Re-enter your four-digit password. The display reads **Password changed**, which confirms that your password has been assigned.

To enter Call Log using your password

1. Press Feature 8 1 2 to enter Call Log. If you have programmed a password, the display reads **Password:**.
2. Enter your four-digit password.

If you forget your Call Log password, it can be deleted in programming. See “Using passwords” on page 187.

Changing your Call Log password

Feature * 8 5

1. Press Feature * 8 5. The display reads **Old Passwrd:**.
2. Enter your old password. The display reads **New Passwrd:**.

3. Enter your new four-digit password. The display reads **Repeat New:**.
4. Re-enter your password. The display reads **Password changed**, which confirms that your password has been changed.

Deleting an assigned password

Feature * 8 5

1. Press Feature * 8 5. The display reads **Old Password:**.
2. Enter your old password. The display reads **New Password:**.
3. Press Hold or OK. The display reads **No Pswd assigned**, which confirms that your password has been deleted.

Programming a telephone to log calls automatically

Your installer or customer service representative can program each telephone to log calls coming in on a line automatically.

Displays

1:Unknown name

The caller's name is unavailable.

1:Unknown number

The caller's number is unavailable.

12:KATE SMITH
NEXT ERASE MORE

_ indicates a new item.

12:KATE SMITH
NEXT ERASE MORE

⏏ indicates that the call was answered.

125KATE SMITH
NEXT ERASE MORE

S indicates a long distance call.

49/1234567890123
NEXT ERASE MORE

/ indicates that the stored number has been shortened to its final 11 digits. Press   or MORE to display additional information about the call.

Call(s) bumped

One or more log entries have been deleted by the Autobumping feature while you are looking at the Call Log.

Hold or release

Hold or release your active call before entering Call Log.

In use: SETNAME

The external line is in use.

Jan 4 9:00a 3X
NEXT ERASE MORE

The repeat call counter, shown along with time and date, indicates the number of calls you have received from the same caller.

Line001 27
NEXT ERASE MORE

This call was answered at another telephone (27).

Line001 Logit
NEXT ERASE MORE

This call was logged manually.

Line001
NEXT ERASE MORE

This call was not answered.

Messages & Calls
MSG CALLS

There are one or more items in your message waiting list, and there are one or more new items in your Call Log. Press  8 0 6 to change the first line of the display to the current time and date.

New calls begin

You have viewed your last old log item and are now viewing your new log items.

No info to log

No information is available for the call.

No log assigned

No log space has been assigned to the telephone.

No resume item

The resume item has been removed because of Autobumping, repeat call update, or log reallocation while you are looking at the Call Log.

For other displays, see "Common feature displays" on page 215.

Using Voice mail

If you subscribe to a voice message service outside your office, you can access that service through your Norstar system. Your installer or customer service representative programs your Norstar telephone to indicate when you have a voice message waiting on a particular line.

To find out if your external voice message service works with Norstar, or if you have any problems with your service, contact your voice message service provider.

Customizing your telephone

Finding out what a button does using Button Inquiry

Feature * 0

You can check the function of any line, intercom, or programmed button on your Norstar telephone by pressing Feature * 0 . On the M7100 telephone Button Inquiry shows your internal number followed by the function assigned to your single memory button.

Displays

001 <LINENAME>
SHOW OK

The display shows the number and name of the line. Press SHOW to view the redirection status of the line.

123456789012345...
VIEW→ OK

Press # or press VIEW→ or ←VIEW to view a number that is too long to fit on the display. Press Hold or OK when you are done.

21 <SETNAME>
NEXT VIEW→

The display shows the directory number of the telephone, and the assigned name. Press NEXT to see the first line assigned to ring at the intercom button.

<Feature name>
SHOW OK

The name of the feature assigned to a button is displayed when you press the button. Press # or SHOW for additional information.

Press a button
EXIT

Press the button you want to check. Press Feature or EXIT when you are finished.

For other displays, see "Common feature displays" on page 215.

Making the display darker or lighter using Contrast adjustment

Feature * 7

1. Press Feature * 7 .
2. Press a number on the dial pad to choose the contrast level you like best.

On a two-line telephone, you can use the UP and DOWN display buttons to adjust the contrast.

The number of contrast levels available varies from one telephone model to another.

Changing the language on the display

You can select the language used on the display of each Norstar telephone. Norstar supports three languages: English, French and Spanish. Button caps are available for each language. When your system is first installed, all telephones use English.

If you program Feature * 5 0 1 on to a memory button, you can then simply press the button until the language you want appears on the display. You cannot program Feature * 5 0 2 or Feature * 5 0 3 onto a memory button.

English

Press Feature * 5 0 1 .

French

Press Feature * 5 0 2 .

Spanish

Press Feature * 5 0 3 .

Programming a feature code onto a memory button

You can program a feature code onto a memory button. In some cases, pressing the button a second time cancels the feature.

Programming feature buttons

Feature * 3

Any memory button not programmed as an external or internal line, target line, Answer button, or Handsfree/Mute button, is available for features.

1. Press Feature * 3 .
2. Press the memory button you want to program with a feature.
3. Enter the appropriate feature code you want to assign onto the button.

The following feature codes cannot be programmed onto a memory button: Long Tones and any code beginning with * except Feature * 5 0 1 (Language Choice) and Feature * 7 (Contrast Adjustment).



Tip - When you program a button with the line pool feature code, you must enter a line pool access code after the feature code. The programmed line pool button accesses a specific line pool, not the line pool feature.

Erasing a feature button

1. Press Feature * 1 .
2. Press the feature button.
3. Press Hold or **OK** to erase the button.

Displays

<Feature name>
SHOW OK

The name of the feature assigned to a button is displayed when you press the button. **SHOW** appears when there is more information available. Press **#** or **SHOW** for additional information.

Enter code:

If you are checking a speed dial button, enter the two-digit speed dial code that you want to check.

F_
QUIT CLEAR

Enter the feature code, or press **Rls** or **QUIT** to quit programming or **CLEAR** to clear the numbers you have entered. The system accepts the entry as soon as you enter a valid feature code.

Feature code:
QUIT

Press **Feature** and enter the feature code you want to assign to the button. You cannot enter invalid codes.

Feature moved

You have programmed a button with a feature that was already programmed onto another button. The feature has moved to the button you just programmed. Its original button is now blank.

Press a button
EXIT

Press the button you want to check. Press **Feature** or **EXIT** when you are finished.

Program and HOLD

Enter the number you want to program and press **Hold**. To erase the button, just press **Hold**.

Program and OK
QUIT OK

Enter the number you want to program and press **OK**. To erase the button, just press **Hold** or **OK**.

For other displays, see "Common feature displays" on page 215.

Applying button cap labels

Before you apply button labels, activate the Button Inquiry feature (Feature *) to verify the button functions and to avoid activating features as you put the labels onto the buttons.

Keep the extra labels and button caps with each Norstar telephone or leave them with the system coordinator.

Types of button caps

- **Unlabeled, clear button caps**
with appropriate green or gray paper for typing in line numbers, telephone numbers, and features
- **Pre-printed, colored button caps**
in green or gray

Some examples of pre-printed button caps

Green caps	Grey caps
Line 1	Last No.
Handsfree Mute	Speed Dial



Tip - *To make identification of line types easier, use preprinted green button caps for lines that support incoming and outgoing calls. Use clear button caps for target lines that are incoming only.*

Identifying the telephones

1. Write the individual telephone numbers on the labels and attach them to the appropriate Norstar telephones.
2. Write the telephone number and the internal number on the appropriate receiver card for each type and color of telephone that is to be installed.
3. Cover the receiver card underneath the receiver of each telephone with the plastic lens.

Norstar default button assignments

Default features are assigned automatically to the programmable buttons on Norstar telephones and vary depending on the telephone. The default features are listed in the tables in this chapter.

Rules of default button assignment

Line and intercom buttons are assigned by default templates and can be changed in programming. Handsfree/Mute and Answer buttons are not assigned by default. If these features are defined, however, they are automatically assigned to specific buttons, as described on this and the following page. None of these buttons can be assigned to M7100 telephones.

The Handsfree/Mute feature appears on the bottom right-hand button (the bottom button on the M7208 telephone), moving the Intercom button(s) up one position.

Each telephone can have up to eight Intercom buttons. They appear above the Handsfree/Mute button at the bottom right-hand position on your telephone (the bottom button on the M7208 telephone).

Each telephone can have up to four Answer buttons. They appear above Intercom buttons in the right column and continue up from the bottom in the left column, replacing the features on those buttons. (On the M7208 telephone, Answer buttons appear above Intercom buttons and below external line buttons in a single column.)

External line buttons appear in ascending line order, starting at the top button in the left column (the top button on the M7208 telephone). If more than five external lines are assigned to an M7310 telephone assignment continues down the buttons on the right column, erasing the features on those buttons. Line buttons have priority over feature access buttons but not Handsfree/Mute, Intercom, or Answer buttons.

M7100 telephone button defaults

For the default template, the one programmable button on the M7100 telephone is .

M7208 telephone button defaults

Pick-Up
Transfer
Last No.
Page
Conf/Trans
Speed Dial
Intercom
Intercom



Tip - The default Page button activates the General Page option (Feature).

M7310 telephone button defaults

Dual-memory buttons

Set 33	Set 37	Set 42
Set 21	Set 25	Set 29
Set 34	Set 39	Set 43
Set 22	Set 26	Set 30
Set 35	Set 40	Set 44
Set 23	Set 27	Set 31
Set 36	Set 41	Set 45
Set 24	Set 28	Set 32

This example shows defaults for a system with two-digit internal numbers.

DN 38 does not appear on any set or CAP module.

The defaults shown for the dual-memory buttons do not actually exist on any telephone, since no telephone has an autodial button for itself. The position that would be taken by the autodial button for itself is blank.

Template button assignments

DND	Conf/Trans
Transfer	Last No.
Call Fwd	Voice Call
Pick-Up	Intercom
Page	Intercom

M7324 telephone button defaults

Buttons without a label are blank by default and can be programmed as autodial or feature buttons.

	Call Fwd
	Speed Dial
	Last No.
	Saved No.
	Conf/Trans
	Transfer
	DND
	Pick-Up
	Voice Call
	Page
	Intercom
	Intercom



Tip - The default Page button activates the External Page option (Feature).

Moving line buttons

Feature *

You can move external lines to different buttons on your telephone to arrange your lines in the way that makes the most sense to you.

You cannot move intercom, answer or Handsfree/Mute buttons onto a CAP module.

1. Press Feature * .
2. Press the button you want to move the line from.
3. Press the button you want to move the line to.

Displays

Exchanged

The two buttons you selected have exchanged position.

Invalid location

You have tried to move a line to a button that cannot be used as a line button, such as an intercom button, Handsfree/Mute button, or an answer button.

Move line from:
QUIT

Press the button of the line you want to move. Press Feature or QUIT when you have finished moving lines.

Move line to:
QUIT

Press the button you want to move the line to. Neither of the buttons is erased. The lines, or the line and feature, simply switch places.

Press a line

The button you are trying to move is not a line button. If you are trying to switch a line and a feature, move the line to the feature button and not the feature button to the line.

Changing the type of ring

Feature * 6

You can choose one of four distinctive rings for your telephone. This makes it easier to identify your telephone in an open office.

1. Press Feature * 6 .
2. Press 1 , 2 , 3 , 4 , or NEXT . You hear the selected ring for two seconds.
3. Repeat until you hear the ring you prefer, then press Hold or OK .

Adjusting the Ring volume

Feature * 8 0

1. Press Feature * 8 0 . The telephone rings.
2. Press   to adjust the volume; left end for lower and right end for higher.

Hiding the message or calls indication

Feature 8 0 6

The display that shows you have messages or calls can be replaced with the current time and date. You can retrieve your message and call information by using the display buttons that appear on the second line of the display.

If you are using a telephone with a single-line display, the message or call indication is hidden.

1. Press Feature 8 0 6 . The current time and date appears on the top line of the display.
2. Press **MSG** or Feature 6 5 to see your messages, or press **CALLS** or Feature 8 1 2 to see your calls.

Restoring the messages and calls indication

Press Feature # 8 0 6

User Preferences

The User Preferences section of programming allows you to program memory buttons, speed dial codes and other settings for any Norstar telephone on the system.

For example, an employee may want to have the Do Not Disturb feature programmed onto a memory button or create a speed dial code. Instead of programming from the employee's telephone, you can go into programming on the telephone nearest you to make the change.

Using User Preferences

Feature * * 8 7 3 7

1. Press * * U S E R
(* * 8 7 3 7).

2. Enter your System Coordinator or Basic password (the default passwords are and).

By using a Basic password, it is possible to have someone else do day-to-day upkeep of people's telephones without giving out access to sensitive programming. See "Using passwords" on page 187.

After you enter the proper password, the display shows you the telephone with the lowest internal number followed by its name (For example, 21:RECEPTN).

1. Press to move through all the telephones on the system.

2. Press when you see the telephone you want to change. The display reads the model number of the telephone at the extension.
The display shows **Connect set** if no telephone is connected at that internal number.
You cannot make changes if the model is **Other**.
3. Press to move through all the subheadings in User Preferences.

User Preferences programming is available under the heading **User Preferences in Terminals&Sets** in the main body of programming.

Sub-headings in User Preferences

User preferences
Model
Button prgrming
User speed dial
Call log opt'ns
Dialing opt'ns
Language
Display cntrst
Ring type

Changing button programming

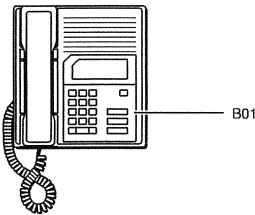
Press at **Button prgrming**. The display shows the number of buttons on the telephone (an example is shown in Displays at the end of this section).

If the telephone has a CAP module, you can press **CAP1** to see the buttons on the module.

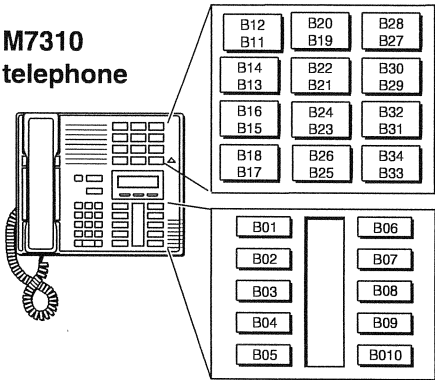
Press to move through all the buttons on the telephone.

Button numbering used with User Preferences programming

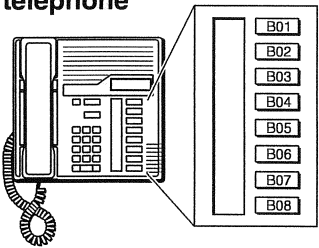
M7100
telephone



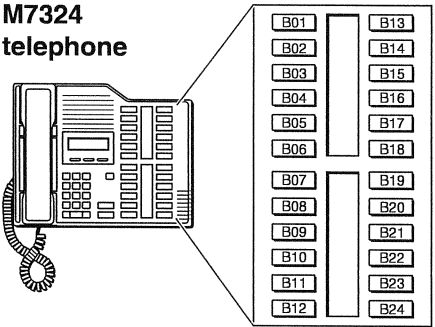
M7310
telephone



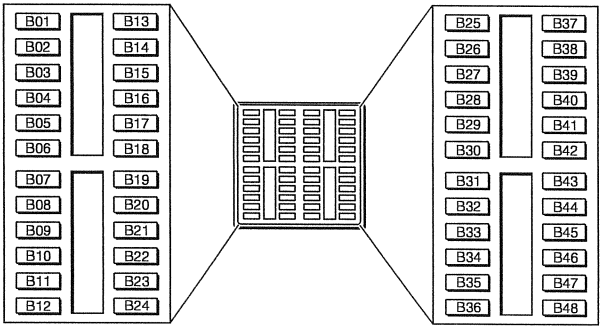
M7208
telephone



M7324
telephone



CAP module



Use the display buttons to change the programming for a button. User Preferences programming cannot change the buttons that are used by lines, intercom, and the handsfree feature.

The display buttons used in button programming

<u>CANCEL</u>	Moves you out of a setting without making any changes to it.
<u>CLR</u>	Erases the button.
<u>TEL#</u>	Programs the key as an autodial number for an internal or an external number. If it is an external autodial number, you have to choose a line, line pool, or the routing table for the call to use.
<u>CHANGE</u>	Used when you are setting up an external autodial number. Press <u>CHANGE</u> until you see the type of line or pool you want the number to use.
<u>FEATR</u>	Press to store a feature code on the button.
<u>FIND</u>	Locates a specific button on a telephone by entering its number. Button numbers are shown in the illustrations.
<u>LIST</u>	Takes you to a list of feature codes. Press Next to move through the list and press <u>OK</u> when you see the feature you want to program on the button.

Information about individual displays you may see is described at the end of this section.

Changing User Speed Dial

1. Press at **User Speed Dial1**. The display shows the number of speed dial codes that are available.
2. Press to see the first speed dial code (71).
3. Press to move through all the speed dial codes.
4. Press at the code you want to change.
5. Press CHANGE and enter the telephone number the same way you would dial it on the telephone.
6. Press OK.

7. Press and choose the line (or enter a code for a line pool) the speed dial code should use.

Use the line pool code to select a particular line pool for use with Speed Dial. If you select **Use routing tbl**, a line or pool is chosen by the routing programming according to the initial digits in the number.

The route you choose for a User Speed Dial code must be one that the telephone can use. For example, if the telephone does not have access to Line Pool B and you use that pool code with the speed dial code, the code does not work.

To change a system speed dial code, see “Adding or changing a system speed dial” on page 15.

Changing Call Log options

1. Press at **Call log opt'ns...**
2. Press **CHANGE** until you see the option you want to use. See “Call Log options” on page 120

Changing how calls are dialed

1. Press at **Dialing opt'ns...**
2. Press **CHANGE** until you see the option you want to use.

Descriptions for dialing options are found on the *Telephone Feature Card*, or see “Changing how you dial your calls” on page 55.

Changing the language used on the display

Press **CHANGE** at **Language:** until you see the language you want to use.

For language choices see “Changing the language on the display” on page 128

Making the display lighter or darker

Press CHANGE at **Display cntrst** until you see the value you want to use.

The display contrast on the telephone you are using for the programming session does not change when you are programming another telephone.

Changing the telephone's ring

At **Ring type**:, press CHANGE until you see the option you want to use.

Descriptions for ringing options are found on the *Telephone Feature Card* or in “Changing the type of ring” on page 136.

Displays

10+24 buttons

FIND

There are ten memory buttons and twelve dual memory buttons on the telephone you are viewing. Press to begin looking at what's on each button.

B01:L06:Line 001

FIND

A line appears on the button. You cannot store a feature or number on it.

B02:#Reply Msg...

CLR TEL# FEATR

A feature is stored on this button. Press to see the feature code. A full list of names and codes for features is included in the index.

Code:F#65...

CLR TEL# FEATR

Shows the feature code stored on a button. Press to see the button number and feature name.

B03:160455512...

CLR TEL# FEATR

The button has a telephone number stored on it. Press to see the rest of the number.

Externl tel #...

CLR TEL# FEATR

The autodial is an external number. Press to see what line or pool the call is programmed to go out on.

Internl tel #...
CLR TEL# FEATR

The autodial is an internal number. Press to see more information.

B04:Intercom...
FIND

The button is used for intercom. Press to see more information about the button. You cannot store a feature or number on it.

B05:Ansr 93
FIND

The button is used for an Answer DN. You cannot store a feature or number on it.

B06:Blank button
CLR TEL# FEATR

Either nothing is stored on the button or you have just cleared the button by pressing CLR.

B10:Handsfree
FIND

The button is occupied by the Handsfree feature. You cannot store a feature or number on it.

For other displays, see "Common feature displays" on page 215.

Programming Hunt Groups

The Hunt Groups feature allows a group of Norstar sets to be called by a single directory number ensuring that calls are easily routed to the appropriate group.



The Incoming Line Group (ILG) functionality is now accomplished through the Hunt Group feature. When upgrading to Compact ICS 4.0 any lines previously belonging to an ILG are not automatically converted to broadcast Hunt Groups, they must be programmed. Please refer to “Assigning or unassigning lines to a group” on page 151.

Hunt Groups are used in situations where a group of people performing the same task are required to answer a number of related phone queries. Some typical uses of Hunt Groups are:

- a sales department answering questions on product prices or availability
- a support department answering questions concerning the operation of a product
- an emergency department answering calls for help.

Hunt Groups can be used to route calls to a support service such as a Help Line for a software company. Specialists dealing with Product A can be in one group, and specialists dealing with Product B can be in another group. Incoming calls hunt for the next available set in the group. If no set is available, the call can be placed in a queue or routed to an overflow set.

The Hunt Groups subheading in system programming is the area where programming changes are made to the following:

- members of a group
- position of a group member
- what lines are assigned to a group
- how incoming calls are distributed
- how long the system looks for available members
- where a call goes if all members are busy

Note: Videophones should not be placed in Hunt Groups. Hunt Groups allow one B channel connection at a time and videophones use two B channels.

Features affected by Hunt Groups include:

- Auto Attendant
- Call Forward All Calls
- Call Forward No Answer
- Call Forward on Busy
- Group Pickup
- Transfer via Hold
- Priority Call
- Line Redirection
- Page Zones
- Voice Call

Note: Fixed external cadencing is provided for all external Hunt Group calls regardless of whether or not they have been answered and transferred.

Adding or removing members from a group

Members of the group can be any Norstar set, CTA 500dm, or ISDN terminal. A Norstar set can be in more than one Hunt Group but is considered a member in each Hunt Group, increasing the total number of members in the system.

There can be only one appearance of the same Hunt Group on a set. Hunt Group DNs cannot be members of other Hunt Groups. A DN can be associated with a member of a Hunt Group and is called a member DN.

Consult your customer service representative to determine your Hunt Group number range.

Note: Only a three digit DN length works with Hunt Groups.

1. Place the programming overlay on any M7310 or M7324 telephone.
2. Press * * 2 6 6 3 4 4 (CONFIG). The display shows **Password:**.
3. Press (ADMIN). The display shows **Terminals&Sets.**
4. Press until the display shows **System prgrming.**
5. Press . The display shows **Hunt groups.**
6. Press . The display shows **Show group.**
7. Enter the Hunt Group number you want to program (1-6).
8. Press . The display shows **Member DNs:**.
9. Press . The display shows the members for that group.

10. Press **ADD** to add a member or press **REMOVE** to remove a member from the group.
11. Press **[Rls]** to exit or **[Next]** to continue programming.

Moving members of a group

Member order within a Hunt Group is important. The member order determines how a call is routed through a Hunt Group.

1. Place the programming overlay on any M7310 or M7324 telephone.
2. Press **[Feature]** ***** ***** **[2]** **[6]** **[6]** **[3]** **[4]** **[4]** (CONFIG). The display shows **Password:**.
3. Press **[2]** **[3]** **[6]** **[4]** **[6]** (ADMIN). The display shows **Terminals&Sets**.
4. Press **[Next]** until the display shows **System Prgrming**.
5. Press **[Show]**. The display shows **Hunt groups**.
6. Press **[Show]**. The display shows **Show group**.
7. Enter the Hunt Group number you want to program (1-6).
8. Press **[Show]**. The display shows **Member DNs:**.
9. Press **[Show]**. The display shows the members for that group.
10. Press **MOVE** to move an existing member to another place within the Hunt Group. The display shows the member number followed by an arrow.
11. Enter the new position number for the extension.
12. Press **[Rls]** to exit or **[Next]** to continue programming.

Assigning or unassigning lines to a group

Configure the prime set for a Hunt Group's line to None to avoid delayed ring transfer of external Hunt Group calls to the prime set before the Hunt Group can receive the call.

A line can be assigned to only one group.

1. Place the programming overlay on any M7310 or M7324 telephone.
2. Press * * 2 6 6 3 4 4 (CONFIG).
The display shows **Password:**.
3. Press (ADMIN). The display shows **Terminals&Sets**.
4. Press until the display shows **System Prgrming**.
5. Press . The display shows **Hunt groups**.
6. Press . The display shows **Show group**.
7. Enter the Hunt Group number you want to program (1-6).
8. Press . The display shows **Member DNs:**.
9. Press . The display shows **Line assignment**.
10. Press . The display shows **Show line:**.
11. Enter the line number you want to program and press SCAN to go to the first line assigned to this group, or press LIST to go to the first line in the system.
12. Press CHANGE to program the line as **Unassigned** or **Assigned**.
HGnn means the line is assigned to another Hunt Group.
13. Press to exit or to continue programming.

Setting the distribution mode

There are three modes of call distribution:

- **Broadcast**—rings each set in the group simultaneously. Calls are handled one at a time; other calls are queued. As soon as a call is picked up, the call next in the queue is presented to the Hunt Group without having to wait for queue time-out.

In Broadcast mode, a single incoming call rings simultaneously at all the sets in a group. This way, all receptionists in the group can share the load of answering large volumes of calls. All sets automatically display the calling line identification (CLID), if available. A familiar example is a fund-raising campaign where a group of operators are waiting to take each call as it comes in.

- **Sequential**—starts the call at the first set in the Hunt Group and distribution is complete when the first free set has been found. Simultaneous calls can be presented. Distribution is order based.

In Sequential mode, you can program your top salesperson to be the first member of the group to receive incoming calls.

- **Rotary**—the call starts at the set after the one which answered the last call. Distribution is complete when the next free set has been found. Simultaneous calls can be presented. Distribution is order based.

In Rotary mode, you can ensure that all your helpline people are receiving calls on an equal basis, rather than one person receiving the majority of calls. The call rings at one set at a time in a round robin fashion.

If a Hunt Group has available members but nobody answers the call, the call is routed through the Hunt Group list until either someone answers the call or the queue time-out occurs.

In the latter case, the call is routed to the overflow position. Once a call goes to the overflow position it is no longer a Hunt Group call.

1. Place the programming overlay on any M7310 or M7324 telephone.
2. Press * * 2 6 6 3 4 4 (CONFIG). The display shows **Password:**.
3. Press (ADMIN). The display shows **Terminals&Sets**.
4. Press until the display shows **System Prgrming**.
5. Press . The display shows **Hunt groups**.
6. Press . The display shows **Show group**.
7. Enter the Hunt Group number you want to program (1-6).
8. Press . The display shows **Member DNs:**.
9. Press until the display shows **Mode**.
10. Press **CHANGE** to set the mode: **Sequential**, **Rotary**, **Broadcast**.
11. Press to exit or to continue programming.

Setting the hunt delay

This setting allows you to program the number of rings the system permits at a Hunt Group set before moving on to the next set in the Hunt Group.

1. Place the programming overlay on any M7310 or M7324 telephone.
2. Press * * 2 6 6 3 4 4 (CONFIG). The display shows **Password:**.

3. Press (ADMIN). The display shows **Terminals&Sets**.
4. Press until the display shows **System programming**.
5. Press . The display shows **Hunt groups**.
6. Press . The display shows **Show group**.
7. Enter the Hunt Group number you want to program (1-6).
8. Press . The display shows **Member DNs**.
9. Press until the display shows **Hunt delay**.
10. Press **CHANGE** to select the setting: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
11. Press to exit or to continue programming.

Programming busy line setting

A Hunt Group is considered busy if one of two scenarios exists:

- all of its members are being presented an incoming Hunt Group call
- all of its members are active on a Hunt Group call

There are three routing options if all members are busy:

- **BusyTone**—the caller gets a busy tone
 - **Overflow**—the call is routed to an overflow position
 - **Queue**—the call stays in the system for a period of time. Within this period of time, the call is presented to a member if one becomes available. When the time-out occurs, the call is presented to an overflow position.
1. Place the programming overlay on any M7310 or M7324 telephone.

2. Press * * 2 6 6 3 4 4 (CONFIG).
The display shows **Password:**.
3. Press (ADMIN). The display shows **Terminals&Sets**.
4. Press until the display shows **System programming**.
5. Press . The display shows **Hunt groups**.
6. Press . The display shows **Show group**.
7. Enter the Hunt Group number you want to program (1-6).
8. Press . The display shows **Member DNs:**.
9. Press until the display shows **If busy:**.
10. Press **CHANGE** to set the mode: **BusyTone**, **Overflow**, **Queue**.
11. Press to exit or to continue programming.

Programming the queue time-out

This setting allows you to program the number of seconds a call remains in the Hunt Group queue before it is routed to the overflow position.

1. Place the programming overlay on any M7310 or M7324 telephone.
2. Press * * 2 6 6 3 4 4 (CONFIG).
The display shows **Password:**.
3. Press (ADMIN). The display shows **Terminals&Sets**.
4. Press until the display shows **System programming**.
5. Press . The display shows **Hunt groups**.

6. Press . The display shows **Show group**.
7. Enter the Hunt Group number you want to program (1-6).
8. Press . The display shows **Member DNs**.
9. Press until the display shows **Q Timeout**.
10. Press **CHANGE** to set the queue time-out: **15, 30, 45, 60, 120, 180**.
11. Press to exit or to continue programming.

Programming the overflow set

This setting allows you to program the overflow set to which the Hunt Group calls are to be routed. Unless the overflow position is a Hunt Group set, the call ceases to be a Hunt Group call. If the overflow set is a Hunt Group set, the call is treated as a new call and goes to the bottom of the queue.

The overflow set can be a set DN number associated with a voice mailbox.

1. Place the programming overlay on any M7310 or M7324 telephone.
2. Press * * (CONFIG). The display shows **Password**.
3. Press (ADMIN). The display shows **Terminals&Sets**.
4. Press until the display shows **System Prgrming**.
5. Press . The display shows **Hunt groups**.
6. Press . The display shows **Show group**.
7. Enter the Hunt Group number you want to program (1-6).
8. Press . The display shows **Member DNs**.

9. Press . The display shows **Overflow:**.
10. Press . The display shows **Overflow:HGr.**
11. Press **CHANGE** to change the overflow position.
12. Enter the new overflow position.
13. Press to exit or to continue programming.

Setting the name

This setting allows you to program the Hunt Group name, such as SERVICE or SALES. The name can be up to seven characters in length.

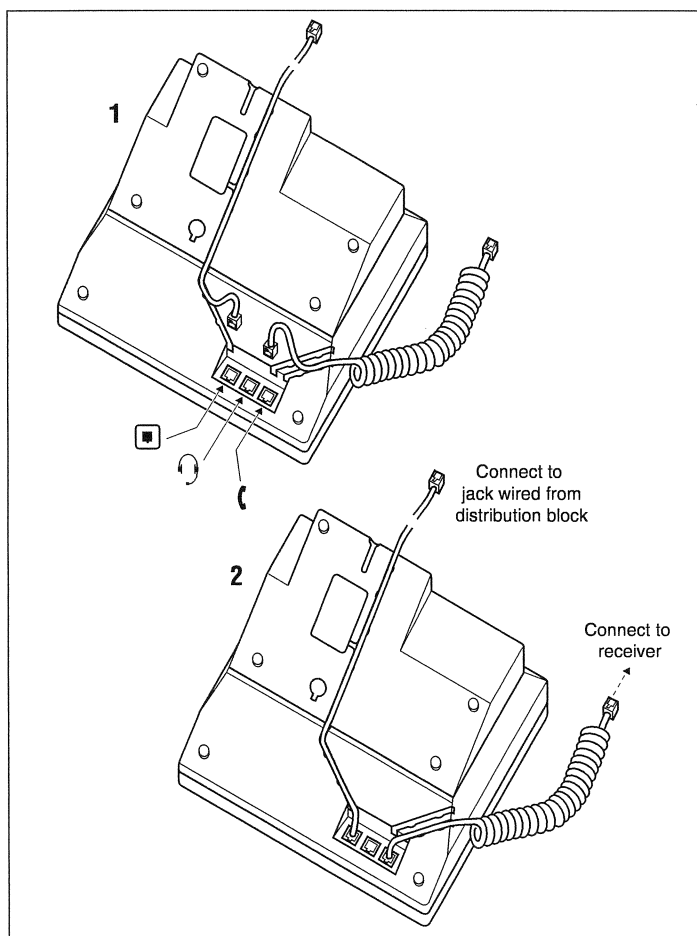
1. Place the programming overlay on any M7310 or M7324 telephone.
2. Press * * 2 6 6 3 4 4 (CONFIG). The display shows **Password:**.
3. Press 2 3 6 4 6 (ADMIN). The display shows **Terminals&Sets.**
4. Press until the display shows **System prgrming.**
5. Press . The display shows **Hunt groups.**
6. Press . The display shows **Show group.**
7. Enter the Hunt Group number you want to program (1-6).
8. Press . The display shows **Member DNs:**.
9. Press . The display shows **Name:**.
10. Press **CHANGE**.
11. Using the dialpad, enter the name of the Hunt Group.
12. Press to store the name.
13. Press to exit or to continue programming.

Telephone features

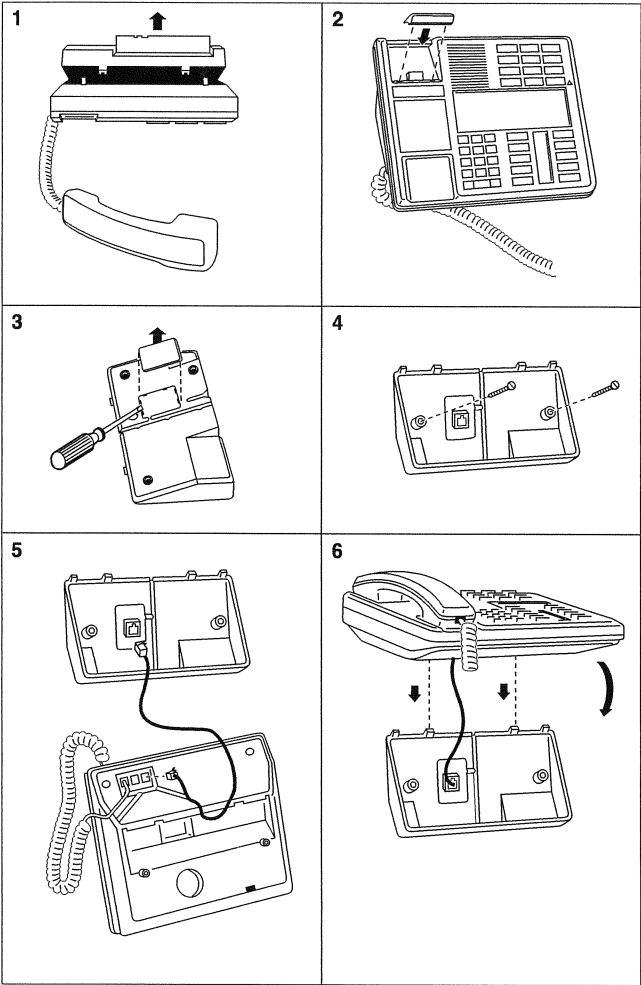
Installing Norstar telephones

If you are connecting a Norstar telephone for the first time, refer to the illustrations below and use as a guideline.

Installing a Norstar telephone



Mounting a Norstar telephone on the wall



Naming a telephone or a line

You can assign names to identify external lines, target lines, and your co-workers' telephones. During a call, the name (if programmed) is shown on the telephone display instead of the external line number or internal telephone number of the caller. Step-by-step instructions for adding or changing the name of a telephone or a line are in “Changing the name of a telephone” on page 18.

Telephone names and line names can contain both letters and numbers, but cannot be longer than seven characters. You cannot use the # and * symbols.



Tip - *You can give the same name to two or more telephones, or to a telephone and a line in your system. To avoid confusion, avoid such duplication. Use initials, abbreviations, or even nicknames to give each telephone a unique name.*

If automatic telephone relocation is turned on, the name and internal number of a telephone are saved if the telephone is moved within your system.

Moving telephones

If automatic telephone relocation is enabled in programming by your installer or customer service representative, you can move your telephone from one Norstar jack to another without losing any of its custom programming.

Stopping calls from ringing at your telephone using Do Not Disturb (DND)

Feature 8 5

Stopping calls

Press Feature 8 5 to stop calls from ringing at your telephone.

Only priority calls ring at your telephone. A line button flashes when you receive a call, but the call does not ring.

Refusing to answer a call

While you are on a call, you can refuse to answer a second call (including a priority call).

Press Feature 8 5 while your telephone is ringing.

Canceling Do Not Disturb

Feature # 8 5

Press Feature # 8 5.

Displays

Allow calls

Your telephone receives calls normally.

Using Do Not Disturb

Once you turn Do Not Disturb on, calls are forwarded to the prime telephone only if there is no other telephone on which the line appears. If there is another telephone that shares the same line, the call may be answered by that person. (The Delayed Ring Transfer feature transfers all unanswered calls to the prime telephone after a specified time.)

Do Not Disturb prevents voice calls from alerting at your telephone. Voice calls are presented as normal intercom calls.



Tip - Norstar sets that are members of a Hunt Group can temporarily leave a Hunt Group by activating this feature. Hunt Group calls arriving while a set is in Do Not Disturb mode are routed to the next member in the Hunt Group. For more information on Hunt Groups see "Programming Hunt Groups" on page 147.

Using Background Music

Feature 8 6

Listen to music through your telephone speaker by pressing

Feature 8 6 .

Your installer or service representative makes this feature available to all telephones in programming. You need to supply a music source, such as a radio, and have it attached to your ICS.



In accordance with U.S. copyright law, a license may be required from the American Society of Composers, Authors and Publishers or a similar organization if radio or TV broadcasts are transmitted through the Background Music feature of this telecommunication system. Northern Telecom Inc. hereby disclaims any liability arising out of the failure to obtain such a license.

Turning Background Music off

The music stops automatically if you make or answer a call or if you press Feature # 8 6 .

Using the device attached to the internal analog terminal adapter

The internal analog terminal adapter (I-ATA) connects a standard analog voice device (for example, a single-line telephone) or a data communication device (for example, a modem or fax machine) to your Compact ICS. Unlike an external adapter, the I-ATA only supports a device that is located on the same premises as your ICS.

You activate all of the features available from the I-ATA by pressing * on your telephone and entering a feature or access code. On some telephones, you use FLASH instead of .

If your telephone or device does not have , you must use the Hook Switch (located under the handset) to enter feature codes. Press the Hook Switch for approximately half a second, then enter the rest of the code.

To make an external call using the device attached to the I-ATA, you must access an external line. To access an external line, lift the handset and enter the external access code. The external access code is 9 or the number programmed by your installer or customer service representative.

The feature codes for the I-ATA the telephone use * and #. If your telephone does not have *, press 1 instead. If your telephone does not have #, press 3 instead.

To make an external call, lift the handset and enter the external access code followed by the external telephone number. In most cases, the external access code is 9.

- Alternate line**
 Allows you to switch between using your two intercom paths. When a path is in use, you hear an error tone informing you that the path is already in use.
- Call Forward** Cancel
 Directs your calls to another telephone connected to your Norstar system. Enter the feature code followed by the internal number of the telephone to receive the forwarded calls. Call Forward cannot be used with a telephone that is not connected to your Norstar system.
- Call Park**
 Parks the call on hold and allows it to be retrieved from any other telephone within the system. After an external call is parked, and is not answered within a specified time, the call returns to the I-ATA. An unanswered intercom call does not return to the I-ATA
 The I-ATA can only park calls on X09. X is 1, or the number assigned by your installer or customer service representative as the call park code. You hear an error tone if you attempt to park a second call while X09 is in use.
- Call Pick-up – directed** <plus the ringing number>
 Allows you to answer a ringing telephone within your Norstar system.
- Call Pick-up – group**
 Allows you to answer a ringing telephone within your Norstar system.
- Call Queuing**
 Allows you to answer the first incoming external call to your telephone, while you are on a call. All other incoming callers hear a busy signal unless there is another telephone programmed to ring for the call.
- Camp-on** <plus internal number>
 Allows you to reroute an external call to another Norstar system telephone.
- Class of Service password** <plus a COS password>
 Allows you to override restrictions on the telephone or line using a Class of Service password before you enter the restricted number.

ConferenceLink * 3

Allows you to establish a three-way conference between you, one external caller and one intercom caller. To establish a conference call:

- Make or answer the first call.
- Enter Link 2 . This automatically puts the first caller on hold.
- Make or answer the second call. If the second caller is busy, replace the handset and enter Link 2 to return to the first caller.
- Enter Link * 3 to complete the conference call.

Conference Hold

Allows you to put the two conferenced callers on hold. The held callers remain conferenced. To put the conference on hold:

- Enter Link 2 to put the two conferenced callers on hold.
- Enter Link 2 to restore the three-way call.

Split Conference

Allows you to alternate between two parties in a three-way conference call. To consult with one caller and put the other caller on hold:

- Enter Link # 3 to split the conference.
- Enter Link 2 to alternate between calls.
- Enter Link * 3 to restore the three-way call.

Disconnecting One Party

Allows you to disconnect one party in a three-way conference call. To disconnect a party:

- Enter Link # 3 to put one caller on hold. You are connected with the other call.
- Replace the handset.
- Lift the handset and enter Link 2 . You are connected with the caller on hold.

HoldLink 2

Allows you to put an active call on hold and allows it to be picked up from other telephones. When Tones are turned on, a held call reminder tone is heard on external calls only.

Retrieve a call on Hold.

- Enter Link 2 .

Exclusive HoldLink * 7 9

Allows you to put an active call on hold and prevents it from being picked up from other telephones. When Tones are turned on, a held call reminder tone is heard on external calls only.

Last Number RedialLink * 5

Automatically dials the last external telephone number you dialed.

LinkLink * 7 1

Generates a Link signal to access non-Norstar features available from other systems or carriers.

Line pools

A line pool allows several telephones to access a group of lines used for outgoing calls. To access a line pool:

- Enter the line pool access code.
- OR
- Enter Link * 6 4 <plus the line pool code>.

MessagesLink * 1Cancel Link # 1

Generates a longer Link signal. Use this feature when you want to release a call from your line but retain the use of the line for another call.

- Page** * 6 0 <plus code 1-3> <plus zone 0-6>
Allows you to make an announcement to all Norstar telephones programmed to receive a page, as well as any other connected paging equipment. You must enter a paging zone. See "Paging" on page 109 for more information.
Page (Intercom)
 * 6 1 <plus zone code>
Page (External)
 * 6 2
Page (Intercom and External)
 * 6 3 <plus zone code>
- Pause** * 7 8
Generates a 1.5 second delay in the sequence of numbers you are entering (for Tone or Pulse dialing).
- Priority Call** * 6 9
Allows you to interrupt an internal call in progress on a Norstar telephone using Voice Call Deny or Do Not Disturb. The calls at the telephone you are calling are automatically put on hold.
Telephones must be programmed to use Priority Call. See "Priority Call" on page 57 for more information.
- Privacy** * 8 3
Prevents another telephone that shares your line from joining your current call, or permits another telephone that shares your line to join the call.
- Ring Again** * 2 Cancel # 2
Allows you to queue a call to another Norstar telephone that is busy or is not answered, or to a busy line in a line pool. You can only use Ring Again on calls placed on an intercom line. When the telephone is available, you are alerted with one short ring from your telephone.

Reply to a Ring Again signal

To connect with a Ring Again request when you are on a call (or your telephone is off-hook):

- Enter . This automatically places your call on hold.
- To return to the caller on hold, enter .

To connect with a ring again request when your telephone is on-hook:

- Lift the handset. The Ring Again number is automatically redialed.

If you do not respond to the Ring Again signal within 30 seconds, Ring Again is canceled.

Saved Number Redial

*

Allows you to save an external number while you are on a call or while the called telephone is ringing. To automatically redial the saved number:

- Enter * .

System Speed Dial

* <plus the speed dial code>

Allows you to use a speed dial code to quickly dial preprogrammed telephone numbers. See "Using Speed Dial" on page 81 for more information.

You cannot program personal speed dial numbers for the telephone connected to the I-ATA.

Timed Release

*

Generates a longer Link signal. Use this feature when you want to release a call from your line but retain the use of the line for another call.

Transfer

Allows you to transfer a call. To transfer a call you must have an available intercom line.

- Enter * .
- Enter the transfer destination number.
- Replace the handset.

To Transfer using Conference

- Enter .
- Make the second call.
- Enter * .
- Replace the handset.

Trunk Answer

*

Allows you to pick up a ringing external call on a line for which Ringing Service is turned on.

Voice Call

Link * 6 6 <plus the intercom number>

Allows you to make a voice announcement or begin a conversation through the speaker of a Norstar telephone without making the telephone ring.

Using a data communication device with the I-ATA

The internal analog terminal adapter (I-ATA) can connect a data communication device such as a fax machine, modem or answering machine to the Compact ICS. In some cases, these devices require additional programming to work properly.

Turning off tones that can interfere with data transmissions

The tones used for Held Line Reminder, Call Waiting, and Ring Again can disrupt the operation of a device or the transmission of data. Lift the handset and enter

Link * 8 0 9 to turn these tones off for the device.

Enter Link # 8 0 9 to turn the tones back on.

Programming answering machines or modems to answer calls automatically

The device connected to the Compact ICS using the I-ATA can ring for an external line, or be set up to ring when Ringing Service (Night Service) is turned on. Contact your installer or customer service representative to have these features programmed for your system.

Using the I-ATA with modems and fax machines

The I-ATA is designed to be compatible with commercial fax and and modem equipment. The Compact ICS has been shown to support data transmission rates of up to and including 28.8 kilobits per second (Kbps).

The maximum data transmission rate is subject to the quality of the end-to-end channel and cannot be guaranteed.

Troubleshooting for the device attached to the I-ATA

Check the following before you call a repair person:

- Check to see that the data parameters (for example, Parity or Baud Rate) are set correctly.
- Ensure that tones are turned off for the I-ATA using * 8 0 9 .
- Make sure you are dialling out on an intercom or external line. Use 2 to choose an alternate line. Contact your installer or customer service representative to change the prime line for the telephone or device.
- Substitute a single-line telephone for your data communication device. If you receive a dial tone on the single-line telephone, the problem might be with the data communication device.

ISDN

Integrated Services Digital Network (ISDN) technology provides a fast, accurate and reliable means of sending and receiving data, image text and voice information through the telephone system.

By using Basic Rate Interface (BRI), your ISDN service allows for faster transmission speeds and the addition of a variety of powerful business applications, including remote LAN access, videoconferencing, file transfer and Internet access.

Your installer configures your ISDN services and terminal equipment.

ISDN BRI

Compact ICS supports the following ISDN services:

- incoming calls
- outgoing calls
- Calling Line Identification Presentation
- Sub-addressing
- bearer capabilities
- teleservices

The Call Forward All Calls feature can be used from ISDN terminals connected to Compact Plus.

Note: Norstar sets can accept voice calls only. Video and data calls do not alert at a Norstar set.

Although an ISDN S-loop or LT-loop can support up to eight devices, the loop has a limit of two B-channels. If both B-channels are in use, other devices on that loop cannot make or receive calls until a B-channel is available, or until both B-channels are available in the case of a video terminal. Thus, the number of terminals installed must take into account whether you require dedicated access for the terminals on that loop.

Note: Norstar set features, other than Transfer and Call Forward All Calls, are not available to ISDN terminals. In addition, you cannot retrieve a parked call, or reach a Direct-Dial set by using the Direct-Dial digit from an ISDN terminal.

Line access from an ISDN terminal

ISDN terminals do not have line keys or intercom keys as do Norstar telephones. To make an outgoing call from an ISDN terminal, access an external line by entering a line pool code or by using the ARS feature.

ISDN BRI features

Selected ISDN network features can be used from a Norstar telephone. Your central office switch (ISDN network) determines which features are available to you.

Network Name Display for BRI

Your Norstar system displays the name of an incoming call when it is available from the service provider. Name information can be displayed on a Norstar set but not on an ISDN terminal. If the Calling Party Name has the status of “private” it may be displayed as “Private name”. If the Calling Party Name is unavailable it may be displayed as “Unknown name”.

Your Norstar system displays the name of the called party on an outgoing call, when it is provided by your service provider.

Your Norstar system sends the Business Name concatenated with the set name on an outgoing call but only after the Business Name has been programmed.

The available features include:

- Receiving Connected Name
- Receiving Calling Name
- Receiving Redirected Name
- Sending Connected Name
- Sending Calling Party Name

Consult your customer service representative to determine whether or not this feature is compatible with your service provider.

Name and number blocking for BRI

When activated, allows you to block the outgoing name and/or number on a per-call basis. Name and number blocking can be used with a Norstar set but not with an ISDN terminal.

Consult your customer service representative to determine whether or not this feature is compatible with your service provider.

Service provider features

Consult your customer service representative to determine if the new ISDN features are supported with your service provider.

Call Forward

Call Forward allows you to forward your calls to an external telephone number.

1. Select an ISDN line by selecting a line button, a line pool, or the Handsfree button, or by lifting the handset (if an ISDN line is your prime line).
2. Consult your service provider for the appropriate feature code to enter on your dial pad. Listen for three tones followed by dial tone.
3. Enter the internal number of the telephone to which you want your calls forwarded. If the call is answered, stay on the line for at least five seconds to activate the Call Forward feature.

Canceling Call Forward

1. Select an ISDN line by selecting a line button, a line pool, or the Handsfree button, or by lifting the handset (if an ISDN line is your prime line).
2. Consult your service provider for the appropriate feature code to enter on your dial pad. Listen for a series of tones.
3. Press .

Calling the number your calls are forwarded to

1. Select an ISDN line by selecting a line button, a line pool, or the Handsfree button, or by lifting the handset (if an ISDN line is your prime line).
2. Consult your service provider for the appropriate feature code to enter on your dial pad.

Automatic Call Back

If you call a number and it is busy, enter the appropriate feature code designated by your service provider to receive a distinctive ring at your set when the line becomes available for calls.

Automatic Recall

Automatic Recall allows you to automatically dial the number of the last call you received. You may not see the number on the display if the information is not available from your service provider, or you do not have Caller ID as part of your ISDN service.

Consult your service provider for the appropriate feature code to enter on your dial pad.

ISDN BRI terminals

Your Compact ICS supports up to 8 Basic Rate Access loops (four 2B+D channels) that can be used for fully digital connections to ISDN networks and devices. Loops are connections between the ICS and devices or between the ICS and the network.

Each loop provides two separate B-channels that can be used to make two simultaneous voice or data calls, or one data call and one voice call.

ISDN applications

ISDN terminal equipment delivers a wide range of powerful business applications:

Videoconferencing and video telephony

Videoconferencing offers instant visual and audio contact between distant parties using either studio-based or desktop ISDN terminals.

Desktop conferencing

ISDN allows computer users in distant locations to share and edit any image, data or text file on their own computer screens while they discuss the information.

File transfer

The ISDN network allows you to transfer files containing data, text, images, data, or audio clips, faster and cheaper than with a conventional modem.

Telecommuting

Convenient retrieval, processing and storage of files is possible for the employee working at home by using ISDN lines to give high-speed access to information resources at the office.

Group 4 fax

ISDN fax applications save money by increasing both transmission speed and the quality of resolution.

Remote LAN access

ISDN provides an affordable and fast means for employees at remote sites (at home or branch offices) to access local area networks (LANs).

Leased line backup

Essential backup for leased lines can be provided using ISDN as required, rather than duplicating costly permanent leased lines.

LAN to LAN bridging

Local area network (LAN) bridge/routers allow flexible interconnection between LANs using ISDN, with charges only incurred when information is actually transmitted.

Internet and database access

The fast call set up and high bandwidth of ISDN are ideal for accessing information services such as the Internet and databases.



Using System features

Using alternate or scheduled services

There are three types of Services to make your Norstar system handle calls differently on different days and at different times of the day: Ringing service, Restriction service and Routing service.

Each of the three services, and the six schedules available to each service, are customized for you by your installer or customer service representative. They program which telephone is used to turn Services on and off, and display what Services are in use. This is called the control telephone.

Preventing certain calls from being made

Restriction service prevents a user from making certain kinds of calls from a telephone or from lines that are available at the telephone. The restrictions are programmed by your installer or customer service representative.

Making additional telephones ring

Ringing service makes additional telephones ring for incoming calls on external lines. For instance, all incoming external calls can ring at a security guard's telephone during the night, or calls to one attendant can ring at another attendant's telephone during lunch. It does not suppress your normal ringing assignment.

Changing the lines used by outgoing calls

Routing service allows you to assign alternate routes to calls. In this way you can take advantage of lower costs available on particular routes on certain days and at certain times. Both the regular and alternate routes are programmed by your installer or customer service representative.

Turning Services on and off

The master control for how different services and their schedules are used by your system is in programming. There are three settings: Manual, Automatic and Off.

- Manual allows you to turn the service on and off at any time from a control telephone using a feature code.
- Automatic allows you to use the preassigned stop and start time for a service. You are able to start and stop the service by entering the appropriate feature code at a control telephone. If you select this setting, you use the start and stop times programmed by your installer or customer service representative.
- Off prevents the service from being activated.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press (the default System Coordinator password).
3. Press twice.
4. Press at **Services**.
5. Press until you see the Service you want to program.
6. Press and until you see the schedule you want to program.
7. Press and use **CHANGE** to select the setting that works best for your office: **Off**, **Manual** or **Automatic**.

Each schedule can have its own configuration of a Service which works independently of automatic start and stop times. For example, there may be a version of Restriction service called Night Schedule that prevents anyone from making long distance calls. But calling it Night Schedule does not mean it can only be used with a schedule. You can turn the Night Schedule for Restriction Service on or off as needed any time of the day or night. If you decide to run a service on a schedule, the system uses the start and stop times used for that schedule.

An example of how to turn on a Service manually

You may have Ringing service (your night service) set up to run according to the Night Schedule. You may decide you want that ringing arrangement to come into effect only when it is turned on and off manually.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press (the default System Coordinator password).
3. Press twice.
4. Press at **Services**. The display reads **Ringing Service**.
5. Press . The display reads **Sched:Night**.
6. Press and use **CHANGE** to set the Service to **Manual**.

Night Schedule for Ringing Service no longer follows the schedule but can be turned on and off by using the feature code and selecting Night Ringing. See “Turning Services on and off using feature codes” on page 184.

Turning Services on and off using feature codes

The master control for services is in programming. See “Turning Services on and off” on page 182. Day-to-day use of Services is controlled using the following feature codes.

Feature

Turns on Ringing service. When used at the direct-dial telephone, it activates the alternate direct-dial telephone (extra-dial telephone).

Feature

Turns off Ringing service.

Feature

Turns on Restriction service.

Feature

Turns off Restriction service.

Feature

Turns on Routing service.

Feature

Turns off Routing service.

To turn a Service on

1. Enter the appropriate feature code from a control telephone.
2. For Restriction and Routing service you have to enter the System Coordinator or Basic password.
3. Press **NEXT** to move through the schedules until the display shows the version of the service you want to be turned on.
4. Press **OK** to select the setting, or press **QUIT** to exit the feature without making any changes.

To turn a Service off

1. Enter the appropriate feature code from a control telephone.
2. For Restriction and Routing service you have to enter the System Coordinator or Basic password.



Do not confuse activating Normal service with canceling a Service.

Setting a Service to Normal is not the same as canceling a Service using a feature code. If you set the Service to Normal, the normal version of a Service overrides any automatic schedule and remains in effect until you manually cancel it. If you cancel the Service, you return to the automatic schedule.

Viewing the active Services from a two-line display telephone

When a Service is active, the control telephone display reads **Services ON**.

1. Press **LIST**. The display shows the first active Service and the schedule that is in use.
2. If there are several active Services, press **NEXT** to see them all.
3. Press **EXIT** to exit the feature.

Viewing the active Services from a one-line display telephone

1. Press **Feature** **8** **7** **0**. The display shows the first active Service.
2. Press **#** to move through the active schedule.
3. Press **Rls** to exit.

Displays

<Sched> Restr'n EXIT NEXT	You are viewing the active Services. Press # or NEXT to see the other active Services. Press Rls or EXIT to quit.
<Sched> Restr'n QUIT OK NEXT	The name of the current Restriction service schedule is displayed. Press # or NEXT to see the other Ringing service schedules. Press Hold or OK to select the desired schedule.
<Sched> Ringing EXIT NEXT	You are viewing the active Services. Press # or NEXT to see the other active Services. Press Rls or EXIT to quit.
<Sched> Ringing QUIT OK NEXT	The name of the current Ringing service schedule is displayed. Press # or NEXT to see the other Ringing service schedules. Press Hold or OK to select the desired schedule.
<Sched> Routing EXIT NEXT	You are viewing the active Services. Press # or NEXT to see the other active Services. Press Rls or EXIT to quit.
<Sched> Routing QUIT OK NEXT	The name of the current Routing service schedule is displayed. Press # or NEXT to see the other Routing service schedules. Press Hold or OK to select the desired schedule.
<Sched> until * QUIT OK NEXT	Press Hold or OK to select this schedule, # or NEXT to see the next available schedule, or Rls or QUIT to exit. If you select this schedule, it is in effect until the next automatic schedule takes effect.
No services ON	You have entered the Show Services feature code and there is no active Service.
Services ON LIST	There is a Service active in your system. Press * or LIST to view the active Services.

For other displays, see "Common feature displays" on page 215.

Services that have been turned on automatically are indicated by an asterisk (*) before the name on the display. You can neither manually activate nor cancel scheduled services, although you can override them by manually turning on another schedule.

The control telephone can override Services that are turned on and off according to a schedule at any time by entering a Services feature code, and selecting a different schedule. This override remains in effect until it is canceled. If you select a schedule with an asterisk (*), the next automatic service schedule comes into effect at the programmed time.

Direct-dial calls to a direct-dial telephone ring at the extra-dial telephone (the extra-dial telephone is designated by your installer or customer service representative) only when you enter the Ringing service feature code () at that direct-dial telephone. Note that only the extra-dial telephone is activated, not the actual Ringing service (unless that direct-dial telephone is a control telephone).



Tip - *Norstar provides six service schedules named Night, Lunch, Evening, Sched 4, Sched 5, and Sched 6. Your installer or customer service representative can change these names to suit your business.*

Using passwords

Your passwords prevent unauthorized or unintentional changes to your Norstar system. To keep your telephone service secure, distribute the password only to selected personnel or make use of the basic password described below. Record your password in a secure place and change it periodically.

If you forget the administration or basic passwords, you cannot do any programming. Call your customer service representative to assign a new password.

The password is a one to six-digit number.

The default System Coordinator password is , which is the same as .

One password cannot be a subset of another one. For example, you cannot have 123 and 12345.

Using a Basic password

In addition to a System Coordinator password, there is a Basic password. This allows you to delegate some of the duties of being a system coordinator to someone else without allowing access to sensitive programming.

The default Basic password is or .

You can enter the Basic password after the following feature codes:

- (User Preferences)
- (to change the system time and date)
- (turn System Answer on or off)
- (turn Custom Call Routing on or off)

Because the Basic password can be used to change the time, you should give it out with care and change it when necessary (for example, when an employee leaves the company). If restrictions, routing or other services operate on a schedule, changing the time can allow someone to bypass the programming.

Changing passwords

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press .
2. Press (the default System Coordinator password).
3. Press four times.
4. Press at **Passwords**.
5. Press until you see **Programing Pswds**.
6. Press .
7. Press until you see the name of the password you want to change.
8. Use , **CHANGE** and the dial pad to enter the new password. Press **OK** to accept the new password.

You cannot erase or eliminate the ability to program passwords.

Clearing a Call Log password

If an individual has forgotten their Call Log password, you can clear it in programming. The individual can then enter a new password from his or her telephone.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press 2 3 6 4 6 (the default System Coordinator password).
3. Press four times.
4. Press at **Passwords**.
5. Press until the display reads **Call log pswds**.
6. Press and enter the internal telephone number of the telephone where you want to clear the Call Log password.
7. Press , then press **CLR** to clear the password.

Using special telephones

Direct-dial

You can reach the direct-dial telephone by dialing a single digit. The direct-dial telephone is usually in a central location, such as a attendant's desk. It is usually the prime telephone or the central answering position (CAP).

The direct-dial telephone can send up to 30 messages and can invoke Services to activate the extra-dial telephone.

You cannot forward calls to a direct-dial telephone that is outside your Norstar system. See “Making changes to Call Forward No Answer” on page 21.

Note: ISDN terminals cannot use the Direct-Dial digit to reach a Direct-Dial set.

Changing the direct-dial telephone assignments

Your installer or customer service representative sets up the direct-dial telephone.

You can change which direct-dial telephone a telephone is assigned to, or assign it no direct-dial telephone.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press (the default System Coordinator password).
3. Press at **Terminals&Sets**.
4. Enter the internal number of the telephone you want to program and press . The display reads **Capabilities**.
5. Press .
6. Press until the display reads **D-Dial**.
7. Press CHANGE to select either **Set1** or **None**.

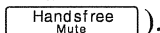
Any number of telephones can be assigned to call the direct-dial telephone.



Tip - *The digit you dial in order to get the direct-dial telephone to ring can be programmed by your installer or customer service representative*

Hotline

A hotline telephone calls a preset internal or external telephone number when you pick up the receiver (or press



Tip - *Label the telephone to inform anyone using it that Hotline is active.*

Bypassing a Hotline

Press a line button, or use the Pre-Dial or Automatic Dial feature before you pick up the receiver or press  on a hotline telephone. See the *Telephone Feature Card* or see “Changing how you dial your calls” on page 55.

Making a telephone a hotline telephone

You can set up a telephone as a hotline.



Tip - *A Hunt Group set DN can be specified as a Hotline telephone. For more information on Hunt Groups see “Programming Hunt Groups” on page 147.*

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press 2 3 6 4 6 (the default System Coordinator password).
3. Press at **Terminals&Sets**.
4. Enter the internal number of the telephone you want to program and press . The display reads **Capabilities**.
5. Press .
6. Press until the display reads **Hotline**.
7. Press **CHANGE** to select the type of call the hotline makes: **None**, **Intrnl**, or **Extrnl**.

Internal assigns an internal number.

External assigns an external number. If you select an external number, you can select the line on which the call is made: the prime line, an external line, a line in a line pool, or a line selected by the routing table. If you select a line pool, you have to specify the line pool access code. If you select the routing table, the number dialed is treated as a destination code and is routed according to the routing tables.

A telephone's prime line, line pool access codes, and access to a line pool can be programmed by your installer or customer service representative.

Control telephone

The control telephone allows you to place the telephones and external lines for which it has responsibility into and out of service schedules. See “Using alternate or scheduled services” on page 181.

Using Set lock

Set lock limits the ways in which you can customize your telephone. There are three levels of Set Lock: Full, Partial, and no set lock. With no set lock, you have access to all features on your telephone.

Partial prevents:

- | | |
|--|---|
| <ul style="list-style-type: none">• programming autodial buttons• programming user speed dial numbers• programming feature buttons• moving line buttons• changing the display language | <ul style="list-style-type: none">• changing dialing modes (Automatic Dial, Pre-Dial, and Standard Dial)• using Voice Call Deny• saving a number with Saved Number Redial |
|--|---|

Full, in addition to the restrictions outlined for Partial lock, prevents:

- | | |
|---|--|
| <ul style="list-style-type: none">• changing Background Music• changing Privacy• changing Do Not Disturb• using Ring Again | <ul style="list-style-type: none">• using Call Forward all calls• using Send Message• using Trunk Answer• activating Services |
|---|--|

Changing Set Lock programming for a telephone

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press (the default System Coordinator password).
3. Press at **Terminals&Sets** and enter the internal number of the telephone you want to program.
4. Press .
5. Press until the display reads **Restrictions**.
6. Press twice.
8. Use **CHANGE** to select one of the three options: **None**, **Partial** and **Full**.

Using an auxiliary ringer

An auxiliary ringer is a separate device that has to be connected to Norstar.

Turning the auxiliary ringer for a telephone on or off

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press (the default System Coordinator password).
3. Press at **Terminals&Sets**.
4. Enter the internal number of the telephone you want to program and press . The display reads **Capabilities**.

5. Press .
6. Press until the display reads **Aux. ringer**.
7. Use **CHANGE** to select **Y** (Yes) or **N** (No).

Your installer or customer service representative can program the auxiliary ringer to start ringing for incoming lines as part of Ringing Service.

Using Host System dialing signals

You can access host systems, such as private branch exchanges (PBX) from Norstar by using host system signaling features (also known as end-to-end signaling). These features either send a special signal to the host system or allow you to program delays required by host systems in external autodial or speed dial sequences.

Link

If your Norstar system is connected to a private branch exchange (PBX), you can use a Link signal to access special features. On some telephones, Link is called FLASH.

The Link signal can be included as part of a longer stored sequence on an external autodial button or in a speed dial code. The Link symbol () uses two of the 24 spaces in a dialing sequence.

Preventing a telephone from using Link

Link can be restricted at individual telephones.

You need the programming template found at the front of this guide. See “Getting started with Norstar” on page 1 for more information.

1. Press * * 2 6 6 3 4 4 .
2. Press 2 3 6 4 6 (the default System Coordinator password).
3. Press and enter the internal number of the telephone you want to program.
4. Press .
5. Press three times. The display reads **Restrictions.**
6. Press twice.
7. Press three times. The display reads **Allow link.**
8. Press CHANGE to choose Y (Yes) or N (No).



Tip - If your Norstar system is connected to a private branch exchange (PBX), program Link onto a memory button for one-touch access.

Pause

7 8

The Pause feature enters a 1.5 second delay in a dialing sequence on an external line. This is often required for signaling remote devices, such as answering machines, or when reaching through to PBX features or host systems.

You can program more than one pause in an external autodial or speed dial sequence.

The Pause symbol (⏸) uses one of the 24 spaces in a dialing sequence.

For pulse dialing, [*] inserts a 1.5 second pause into the dialing sequence.

Long Tones

Feature [8] [0] [8]

The Long Tones feature allows you to control the length of a tone so that you can signal devices such as fax or answering machines which require tones longer than the standard 120 milliseconds.

1. While on a call, press Feature [8] [0] [8].
2. Press the dial pad buttons to produce the appropriate tones. Each tone sounds for as long as you hold down the button.

Long tones can be used on any call except a conference call. You can use internal lines of the Norstar system to activate a device connected to an analog terminal adapter (ATA) in another area of your office, or external lines to access devices outside the Norstar system.

Displays

Long Tones:

At the appropriate time, press any dial pad button. Hold each button down for as long as necessary. Press Feature [8] [0] [8] or Hold [8] [9] to cancel Long Tones.

Programmed Release

Feature [*] [8] [9]

The Programmed Release feature performs same function as [Rls] in a programmed dialing sequence. When the system encounters Programmed Release in a dialing sequence, it stops dialing and hangs up the call.

The Programmed Release symbol (PR) takes up two of the 24 spaces in a programmed dialing sequence.

The system ignores any digits or commands that follow a Programmed Release in a programmed dialing sequence.

Run/Stop

Feature * 9

Run/Stop inserts a break point into a sequence of dialed numbers or characters used for automatic dialing. This may be necessary when you are connecting to a PBX or similar host system.

For example, you can call a company with an automated attendant that instructs you to dial the internal number you need. You can program the company number, a Run/Stop, then the internal number on one external autodial button. Press the autodial button once to dial the company number. When you hear the automated attendant, press the autodial button again to dial the internal number.

The Run/Stop symbol (■) uses one of the 24 spaces in an autodial or speed dial sequence.

You can include up to three Run/Stop commands in a dialing string. The system ignores a fourth Run/Stop, and any digits or commands that follow it in a programmed dialing sequence.

Wait for Dial Tone

Feature 8 0 4

Wait for Dial Tone causes a sequence of numbers to pause until dial tone is present on the line before continuing to dial. This is useful if you must dial a remote system and then wait for dial tone from that system before dialing the rest of your number.

The Wait for Dial Tone symbol (**■**) uses two of the 24 spaces in an autodial or speed dial sequence.

Displays

Invalid code

You have entered a code that can only be used in a programmed autodial or speed dial sequence, not on a call you dial directly. Programmed Release and Run/Stop are for use in programmed dialing sequences only.

Using pulse dialing for a call

If your external telephone lines use pulse dialing, you can temporarily switch to tone dialing by pressing **#** after selecting the line. Tone dialing allows your Norstar telephone to communicate with devices and services that respond to tone signals, such as automatic switchboards, and fax or answering machines.

Using your Norstar system from an external location

You can use the lines and some of the features of a Norstar system from outside the system. You can do this over the public telephone network when you are away from the office, or you can call from another system, over a private network.

An example of how remote access works is a sales representative who spends a lot of time out of the office needs to make long distance calls to the European office. Your Norstar system has a leased line to Europe with reduced transatlantic charges. You provide that sales representative with a Class of Service password that gives access to the transatlantic line. The sales representative can then telephone into the Norstar system from a hotel, enter their Class of Service password, and use the leased transatlantic line to make calls.

Remote users can access Norstar lines, line pools, the page feature, and remote administration (if enabled through

Software Keys). The exact facilities available to you through remote access vary depending on how your installer or customer service representative set up your system.

Controlling access to your Norstar system

It is important to maintain the security of your Norstar system by limiting access to authorized users and limiting those users to the features they need.



Remote users can make long distance calls.

Remember that a remote user can make long distance calls that are charged to your company and can make page announcements in your office.

Direct inward system access (DISA)

Control access to your Norstar system with direct inward system access (DISA). Access to your Norstar system from the public telephone network should always be controlled with DISA. If your installer or customer service representative programs the line used for remote access to answer a call automatically and wait for a DISA internal number, callers hear a stuttered dial tone and must enter a Class of Service password before they are allowed into the system.

Class of Service (COS)

To control the level of telephone service a remote user can access, your installer can assign a remote filter and remote package to the line used for remote access. The remote filter restricts the numbers that can be dialed on the line, and the remote package restricts the use of line pools and the page feature. To change the restrictions for the line, the user can enter their Class of Service (COS) password when the system answers with DISA, or can dial the DISA internal number and enter their Class of Service password.

Maintaining security

To maintain the security of your system, the following practices are recommended:

- Warn anyone to whom you give the remote access number to keep it confidential.
- Change Class of Service passwords often.
- Warn anyone to whom you give a Class of Service password to remember it and not to write it down.
- Remove the Class of Service password of anyone who leaves your company.

Accessing Norstar remotely over the public network

1. Dial the Norstar system's remote access number.
2. When you hear a stuttered dial tone, enter your COS password.
3. Wait for the system dial tone.

If your system is using System Answer or CCR, you may enter the DISA number or Auto DN once your call has been automatically answered by one of the features.

To use the system remotely, you must use a telephone with tone dialing to call the system.

Remote access is possible only on lines that your installer or customer service representative programs to auto-answer calls.

To use features on a remote Norstar system, press followed by the feature code. Even if you are calling from a Norstar system, press instead of .

In certain situations, you may experience lower volume levels when using Norstar remotely.

Tones

You may hear some of the following tones while accessing Norstar remotely.

Tone	What it means
Busy tone	Dialed a busy line pool access code. You hear system dial tone again after 5 seconds.
Norstar system dial tone	You may use the Norstar remotely.
Fast busy tone	You have done one of the following • Entered an incorrect COS password. Your call is disconnected after five seconds. • Taken too long while entering a COS password. Your call is disconnected after five seconds. • Tried to use a line pool or feature not permitted by your Class of Service. You hear system dial tone again after five seconds. • Dialed a number in the Norstar system which does not exist. Your call is disconnected after five seconds.
Stuttered dial tone	Enter your COS password.

Using Class of Service (COS) passwords

Class of Service passwords permit controlled access to a system's resources both by internal and remote users. When you enter a Class of Service password at a telephone, the restriction filters associated with your Class of Service password apply, rather than the normal restriction filters. Similarly, when a remote user enters a Class of Service password on an incoming auto-answer line, the restriction filters and remote package associated with their Class of Service password apply, rather than the normal restriction filters and remote package. COS passwords are programmed by either your customer service representative or installer.

Users should memorize their COS passwords instead of writing them down. Employees' COS passwords should be deleted when they leave the company. Typically, each user has a separate password. Several users can share a password or one user can have several passwords.

Changing your Class of Service

Feature

6

8

You must enter a Class of Service password each time you want to make a call that is normally restricted on a line or telephone.

To change the restriction filters on a line or telephone:

1. Press .

2. Enter your six-digit COS password.

COS passwords allow you to define individual passwords and determine the restriction filters, and remote package associated with each.

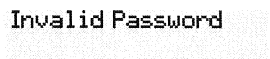


Tip - If you use your Norstar system from outside the office, you may have to enter a Class of Service password to gain access to the system. See "Using your Norstar system from an external location" on page 200.

Displays



(Blank display) Enter your password. It is not shown on the display.



Invalid Password

You have entered a password that is not programmed into your system.

General System features

The following features are available for the entire Norstar system.

Disconnect supervision

When Disconnect Supervision is assigned to a line, the Norstar system monitors it to detect if an external caller hangs up. This allows the system to release the line for other uses. Your installer or customer service representative assigns disconnect supervision.

Hunt Groups

Your Norstar system now allows you to establish Hunt Groups in your system. Hunt Groups are a group of Norstar sets that can be called by a single directory number. The Hunt Groups feature ensures calls are easily routed to the appropriate people. For more information on Hunt Groups see “Programming Hunt Groups” on page 147.

Internal numbers

Each telephone in the Norstar system has its own internal number. The length of internal numbers in your system can be from two to seven digits. All numbers in your system are the same length. Your installer or customer service representative sets the length of internal numbers (called the DN length).

To find out your internal number, use the Button Inquiry feature (*) on an intercom button. On the M7100 telephone, Button Inquiry shows your internal number followed by the function assigned to your single-memory button.

Line assignment

Any of the lines in your system can be assigned to any of your telephones. Your installer or customer service representative assigns lines to telephones in Configuration programming. Lines can be assigned to appear only, appear and ring, or to ring only.

Usually, only the lines that are appropriate for a particular person appear at that person's telephone. When a line is assigned to a telephone it is automatically given a line button on that telephone, if a button is available. The M7100 telephone has no line buttons for its lines.

Calls on lines that ring but do not appear at a telephone are presented at an intercom button.

You may be able to answer a call on a line that does not appear or ring at your telephone. To pick up such a call, use Call Pickup, Call Park, or Trunk Answer.

A telephone may have buttons assigned for lines 001 to 003, but have only lines 001 and 002 programmed to ring as well. An incoming call on any of the three lines causes a line button indicator to flash, and the telephone can be used to answer the call. This is especially useful for people who monitor other telephone lines, but want only their own lines to ring.

Target line

A target line is used to route a call directly to a particular telephone or group of telephones. Target lines are used only for incoming calls. A single incoming line may provide connections to several different target lines. This allows each person or department in the office to have their own number without having a separate external line for each number.

Line pools

A line pool allows each telephone access to external lines from a group (or pool) of external lines. You can access such lines by pressing an intercom button and entering a line pool access code or by pressing a memory button programmed with the line pool feature code and a line pool access code.

Overflow call routing

If a call comes in for a target line that is busy, Norstar routes the call to the prime telephone for that target line. If there is no prime telephone assigned to the target line or if a call cannot be directed to a target line, the call goes to the prime telephone for the external line used.

Overflow routing for incoming calls is used with the Routing Service programmed by your installer. A Service must be active for overflow routing to be in effect. Overflow routing is not available in normal service.

M7100 telephone

Because the M7100 telephone does not have line buttons, it sometimes works slightly differently from other Norstar telephones. Where other telephones can require that you select a line button to answer a call, on the M7100 telephone you simply pick up the receiver. Where other telephones require you to select a line button to take a call off hold, you press on the M7100 telephone.

On M7100 telephones, you can answer a second call by pressing . Your active call is put on hold and you are connected to the waiting call. You can have no more than two calls at a time.

The M7100 telephone cannot have a  button. When applicable, special instructions for the M7100 telephone are included with each feature description.



Memory buttons

Memory buttons are the buttons with indicators on the M7208, M7310, and M7324 telephones, and the dual buttons without indicators on the M7310 telephone. There is a single memory button, without an indicator, on the M7100 telephone.

Memory buttons can be used as answer, autodial, line, and programmed feature buttons. Line, intercom and answer buttons must have indicators.

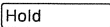
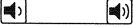
One-line display

The M7100 and M7208 telephones have a one-line display. Other Norstar telephones have a second line on the display which shows the functions of the three buttons directly below it.

Some display buttons, such as TRANSFER and ALL, are simply shortcuts which are not available on a one-line display.

Other display buttons, such as OK and SHOW, perform essential functions. For a one-line display telephone, use the following buttons instead of these display buttons.

Substitutes for display buttons

Display button	Dial pad button
<u>OK</u>	
<u>QUIT</u>	
<u>ADD</u>	
<u>SHOW</u>	
<u>CANCEL</u>	
<u>VIEW</u>	
<u>OVERRIDE</u>	
<u>BKSP</u>	

All displays listed in this book are shown as they appear on the two-line display.

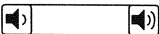
Prime line

Your telephone can be programmed to select an internal or external line or a line pool automatically whenever you lift the receiver or press . This is your prime line.

Private lines

A private line is exclusive to a particular telephone. Calls that are put on hold or left unanswered on a private line cannot be picked up at any telephone except the prime telephone.

Volume bar

The volume bar controls the volume of the receiver, telephone ringer, handsfree speaker, and headset. Press either end of the volume bar  to adjust the volume.

Wall mounting

Norstar telephones can be mounted on a wall. Contact the installer or customer service representative if you want to have any telephones in your system wall-mounted.

Troubleshooting

Using the alarm telephone

An alarm telephone displays Norstar's system alarm codes, should they occur. It is a Norstar telephone with a two-line display (M7310 or M7324 telephones) that the installer or customer service representative has assigned as an alarm telephone.

Reporting and recording alarm codes

If an alarm message appears on the alarm telephone's display

1. Record the alarm number.
2. Press **TIME** and record the time displayed.
3. Call your installer or customer service representative and report the alarm code.
4. After speaking to your installer or customer service representative, press **CLEAR**.

Displays

Alarm:	61-4-2
TIME	CLEAR

Report this alarm and the time it occurred to your installer or customer service representative.

Testing the telephone

If you suspect something is wrong with a button, the speaker, the displays, or some other part of the Norstar telephone hardware, you can do a quick test to see which part of the telephone is broken.



Tip - Ensure that the function of a button matches its label by pressing and then the button to see its function.

You can end the telephone testing session anytime by pressing or unless you are testing those buttons. The test feature times-out after 30 minutes of no activity.

Testing the telephone display

Use a display test if you suspect that one of the indicators on the telephone is not working.

1. Press . The display reads **Display test**.
2. Press **TEST** or to go ahead with a display test.
3. Adjust the contrast for the telephone display so you are able to see the test results clearly. Enter a number to change the contrast or press **DOWN** and **UP**.
4. Press **OK** or to go ahead with the test.

During the test, the display should be filled with solid, dark blocks and all the indicators next to the buttons on the telephone should be turned on. Any Busy Lamp Field (BLF) or CAP modules that are attached to the telephone should be completely lit. You lose any information that was showing on the BLF before the test started.

Pressing any button ends the test.

Testing the telephone buttons

1. Press , then or NEXT.
2. Press TEST or to go ahead with a button test.
3. Press button to see its function. If the button you pressed uses an indicator, it should turn on when you test the button.
4. Pressing the button puts **Rls button** on the display briefly and returns you to the **Button test** display.

Testing the speaker in the telephone handset

The handset test is not available if you have a headset plugged into the telephone.

1. Press , then or NEXT twice. The display reads **Handset test**.
2. Press TEST or to go ahead with a handset test.
3. Pick up the handset and listen. You should hear dial tone through the handset at a maximum volume. The volume is reset to maximum only while the test is going on.

Pressing any button or hanging up ends the test.

Testing the telephone headset

The headset test is not available to telephones that do not have a headset jack or a headset plugged in.

1. Press , then or NEXT until the display reads **Headset test**.
2. Press TEST or to go ahead with a headset test.

You should hear dial tone through the headset. The volume is reset to a default level during the test.

Pressing any button ends the test.

Testing the telephone speaker

1. Press , then or NEXT until the display reads **Speaker test**.
2. Press TEST or to go ahead with a speaker test.

You should hear page tone through the telephone speaker at the maximum volume. The volume returns to its previous setting when you end the test.

Pressing any button ends the test.

Testing the power supply to a telephone

1. Press , then or NEXT until the display reads **Power test**.
2. Press TEST or to go ahead with a power supply test.

You should see all the indicators on the telephone go on and hear ringing at maximum volume. When the test has ended, the display should briefly show **Power OK**.

The test lasts for five seconds or until you press a button.

Common feature displays

You may see the following displays when you use a feature.

Access denied

Someone is already using programming, or the feature you are trying to use is not compatible with the configuration of the telephone or line.

Denied in admin

You have tried to use a feature, but you have not been given access to it in administration programming.

Feature timeout

You have taken more than 15 seconds to press a button in response to a display.

Inactive feature

You have entered a feature code that is used by an application program that your system does not have.

Invalid code

You have entered an invalid feature code.

Not available

You have tried to use a feature that is not available in the present setup of your Norstar system.

Set locked

You cannot use the feature you have chosen because your telephone is locked. See "Using Set lock" on page 194.

1234567890123...
VIEW+ OK

Press or press VIEW+ or ←VIEW to view a number that is too long to fit on the display. Press or OK when you are finished.

\$

This indicates a long distance call. (May be available with Call Display services.)

39>21

Either you are receiving an internal call from telephone 39 forwarded by telephone 21 or you have an Answer button for telephone 21 and an internal call from 39 is ringing on 21.

21 TRANSFER	You are connected to an internal call. Press <u>TRANSFER</u> to transfer the call.
21 calling	You are receiving a call from telephone 21.
Call 21? YES NO	You have received a Ring Again offer for a call to an internal telephone. Press the flashing internal line button or <u>YES</u> to call the number again. On the M7100 telephone, just lift the receiver. Otherwise, press <u>NO</u> or wait 30 seconds for the Ring Again offer to expire. For an explanation of Ring Again, see "Using Ring Again" on page 59.
Camped: 21 CALLBACK	The person to whom you camped the call did not answer it. The call has come back to you. Press the line button or <u>CALLBACK</u> to reconnect to the call.
Line001 TRANSFER	You are connected to an external call. Press <u>TRANSFER</u> to transfer the call.
Line001>21	Either you are receiving an external call forwarded from telephone 21 or you have an answer button for telephone 21 and an external call is ringing on that telephone.
Line001 transfer	The call on line 001 is being transferred to you by someone else in your Norstar system.
Line001 waiting	A camped call is waiting. Press the line button or use Call Queuing to answer the call. Press Hold if you have an M7100 telephone.
No calls waiting	You tried to use Call Queuing but no call was ringing at your telephone.
No line selected	There is no call ringing at your telephone. If you have a flashing line button but your telephone is not ringing, press the line button to answer the call on that line.

Not in service	The telephone to which you directed a call is not in service or is otherwise unavailable. The call is returned to your telephone.
Parked call CALLBACK	No one answered the call you parked. The call has come back to you.
Pick up receiver	You have used the Call Queuing feature without picking up the receiver. Auto Handsfree has not been assigned to your telephone. You must use the receiver or  to answer a call.
Priority> 21 BLOCK	You are receiving a priority call. If you are on another call, inform the person you are speaking to that the call is about to be put on hold. Press the flashing line indicator of the priority call or wait until the call connects automatically (in eight seconds). The priority call goes through when you hear the next beep. Your active call is placed on Exclusive Hold. It is reconnected automatically when the priority call ends (unless you transfer the priority call, in which case you must press the line button of your original call to reconnect). Use DND ( 8 5) or press <u>BLOCK</u> to reject a priority call.
Release a call	You have no free line buttons on which to receive a call. Release one of your current calls and try again to answer the incoming call.
Use line pool? YES NO	You have received a Ring Again offer for a line pool. Press the flashing internal line button or <u>YES</u> to use the line pool. On the M7100 telephone, just lift the receiver. Otherwise, press <u>NO</u> or wait 30 seconds for the Ring Again offer to expire.
Hold or release	You cannot program a feature button while you are on a call.
Release calls	You have tried to use a feature while you were on a call or had calls on hold. Release the call or calls, before using the feature.

Line in use	The line is in use. Make the call using normal methods or wait until the line is free.
No button free	You have tried to make, receive or pick up a call when no line button was available. Some features require you to have a button free. Releasing calls can free up line buttons.
Make calls first	The feature you tried to use requires you to be on an active call at your telephone. This display also appears when information about a call has been cleared by a system reset.
No free lines	All the lines or line pools available to the telephone are in use. This display also appears when you have tried to dial an external number or use a feature that conflicts with the lines, line pools or prime line used by the telephone. This must be corrected by your customer service representative or installer.
No line selected	The telephone has been set up to dial an external number on a prime line but the telephone does not have a prime line. This must be corrected by your customer service representative or installer.
In use:21	You have tried to program redirection while someone else is programming redirection. Only one person can program line redirection at a time.
Incoming only	The line you are trying to use for redirecting calls is for incoming calls only. Choose an outgoing line.
9_ QUIT BKSP OK	Continue entering digits. Press  or <u>BKSP</u> to delete incorrect digits. Press  or <u>OK</u> when you are finished.
Invalid number	You have entered an invalid line pool code or an invalid destination code.
Line denied	You have selected a line that is private to another telephone.

Restricted call

The destination you have chosen for line redirection is restricted.

Index

Symbols

- ☎ Long Distance symbol 215
- 📡 Link symbol 196
- ⏸ Pause symbol 197
- 📞 Programmed Release symbol 198
- 📞 Run/Stop symbol 199
- 📞 Wait for Dial Tone symbol 200

A

access

- Class of Service 203
- external lines 207
- Norstar from outside the system 200
- remote 202
- using a COS 201
- using a DISA 201

Access denied 215

ADD 209

administration password (see System Coordinator password)

administration programming 2

Alarm 61-4-2 211

alarm codes

- reporting and recording 211

alarm telephone 211

Allow calls 162

allow redirect

- programming 103

Already joined 37, 52

Already parked 95

Alternate line (ATA feature code) 165

alternate services 181

analog terminal adapter

- dialing signals 198
- using dialing modes 56

analog terminal adapter, internal

- and features 164
- feature codes 170
- troubleshooting 171

announcement

- paging 109

- Voice Call 116

Answer button 38

answering calls

- Answer button 38

- Call Display services 32

- Call Duration Timer 49

- Call Pickup 35

- central answering position 29

- Conference Calls 39

- Custom Call Routing 62

- Group Listening 43

- Handsfree 44

- hearing aid compatibility 31

- prime telephone 29

- Privacy 48

- System Answer 61

- Trunk Answer 37

- using line buttons 28

- using the Release button 31

- Voice Call 117

answering machine, and I-ATA 170-171

- apply button cap labels 131
- ATA (see analog terminal adaptor)
- attendant telephone 66
- Auto Attendant 61–76
- Auto Call information (see Caller ID set)
- Auto System Answer (see System Answer)
- autodial
 - line selection 78
 - programming 77
 - storing number on a memory button 77
 - using Last Number Redial 81
- Autodial full 78
- automatic
 - Call information 34
 - Call Log 119
 - dial 56
 - Handsfree 46
 - Hold 87
 - release of a line (see Disconnect Supervision)
- Automatic Call Back, ISDN
 - terminal feature 177
- Automatic Recall
 - ISDN terminal feature 177
- Automatic Telephone Relocation 161, 205
- auxiliary ringer 195

B

- Back 7
- Background Music 163
- Basic password 2, 139, 188
- BKSP 209

- blocking calls (see Do Not Disturb)
- busy 51, 58
- busy tone
 - fast 203
- button caps
 - types of 131
- button defaults
 - M7100 telephone 132
 - M7208 telephone 133
 - M7310 telephone 133
 - M7324 telephone 134
- Button erased 78
- Button Inquiry 127
- buttons
 - Answer button 38
 - Button Inquiry 127
 - changing button
 - programming 140
 - display 5
 - dual memory 5
 - erasing programmed features 129
 - Feature 5
 - Handsfree/mute 47
 - Hold 5
 - Last Number Redial 80
 - memory 5, 77, 208
 - moving line 135
 - numbering on all telephone types 140
 - programming features on
 - buttons 129
 - Release 5, 31
 - Saved Number Redial 84
 - shift 5
 - testing 212, 213
 - using a line button 53
 - using buttons 3

bypassing
 a Hotline telephone 192

C

call

 ways to make a 51

Call 221? 216

Call blocked 58

Call Display information 32

Call Duration Timer 49

Call Forward

 ATA feature code 165

 Call Forward No Answer 22

 Call Forward on Busy 23, 99

 Forward no answer 98

 forwarding to voice mail 101

 ISDN terminal feature 176

 overriding 98

 programming 21, 98, 99

Call Forward and Line

 Redirection, differences 106

Call information

 automatic 34

 changing what information is
 shown first 34

 displaying information 32

 getting information for a call
 on hold 33

 getting information for a
 current call 33

Call Log 119

 Autobumping 121

 automatic 119

 calling from within 122

 deleting log items 121

 logging call manually 120

 options 120, 143

 using 119

Call Log set 119

call overflow 207

Call Park 94

 ATA feature code 165

Call Pick-up

 ATA feature code 165

Call Pickup

 Directed Pickup 35

 Group Pickup 36

Call Pick-up (Directed)

 ATA feature code 165

Call Queuing 88

 ATA feature code 165

Call Transfer 89

Call Transfer (ATA feature code)
 169

Call(s) bumped 125

Callback 96

Caller ID set 34

Calling 58

Camp denied 93

Camp max 93

Camp to 93

Camped 93

Camped 216

camping calls (see Camp-on)

Camp-on 92

 ATA feature code 165

Can't ring again 52, 59

CANCEL 209

Cancel denied 115

CAP (see central answering
 position)

CCR (see Custom Call Routing)

central answering position

 answering calls 29

 M7324 telephone 29

 sending messages 112

- telephone 29, 190
 - using 29
- Class of Service
 - ATA feature code 165
 - changing 204
 - using a password 201, 203
- Cleared>LINEAM 115
- communicating in the office
 - paging 109–112
 - sending messages using display 112
- Voice Call 117
- Conf. on hold 42
- Conference busy 42
- Conference Call
 - ATA feature code 166
 - by releasing privacy 48
 - removing yourself from 42
 - using the Conference feature 39
- contrast adjustment 128
- control telephone 184, 185, 194
- Custom Call Routing
 - attendant telephone 66
 - customizing 64
 - language choice 67
 - using 62
- customizing your telephone
 - adjusting ring volume 137
 - Button Inquiry 127
 - changing ring type 136
 - contrast adjustment 128
 - User Preferences 139

D

- date and time
 - changing 13
- default

- button assignments 132
- deleting
 - Call Log items 121
 - messages from list 114
 - programmed features 129
- Denied in admin 215
- desktop conferencing 178
- dial pad
 - description 5
 - entering numbers and letters 18
- dial tone
 - Norstar system 203
 - stuttered 203
- Dial voice call 117
- dialing
 - automatic dial 56
 - direct extension 63
 - options 143
 - pre-dial 56
 - saved number 84
 - standard dial 56
 - switching from pulse to tone 200
- dialing modes 55
- dialing signal
 - Link 196
 - Long Tones 198
 - Pause 197
 - Programmed Release 198
 - run/stop 199
 - switching from pulse to tone 200
 - Wait for Dial Tone 199
- direct extension dialing, using Custom Call Routing and System Answer 63
- direct inward system access 201
- direct-dial telephone

programming 191
 Directed Pickup 35
 directing calls, using Custom
 Call Routing 62
 DISA (see direct inward system
 access)
 disconnect
 from conference 42
 releasing a call, accidentally
 49
 supervision 205
 Disconnect Supervision 205
 display
 buttons 5
 Call information 33
 changing the language 128,
 143
 contrast 144
 display buttons 5
 making darker or lighter 128
 one-line 208
 testing 212
 display buttons
 equivalents for one-line
 display 208
 distinctive rings 136
 DN (see internal numbers)
 DND 93
 DND transfer 29
 DNs 12
 Do Not Disturb 162
 on Busy 24
 Do not disturb 52, 58, 91
 Do Not Disturb on Busy 100
 DRT 29
 dual memory button 5

E

ending a call 31
 Enter code 130
 Enter digits 79, 83
 Enter zone 111
 entering names and numbers 17
 erasing
 Call Log items 122
 messages from list 114
 programmed features 129
 Evening Sched 187
 Exchanged 135
 Exclusive Hold 57, 88
 Expensive route 52
 external
 page 109
 external access to Norstar 200
 external autodial
 programming 77
 external Call Forward (see Line
 Redirection)
 external paging equipment 112
 extra-dial telephone 187

F

Feature

[*] 0 Button Inquiry 131
 Autobumping
 canceling [#] 8 1 5
 121
 using 8 1 5 121
 autodial button
 external [*] 1 77, 80
 internal [*] 2 77
 Background Music
 canceling [#] 8 6 163
 turning on 8 6 163

Button Inquiry[*] 0 84,
 127, 205, 212
 Call Duration Timer[7] [7] 49
 Call Forward
 canceling[#] [4] 97
 using[4] 97
 Call
 Information[Feature] [8]
 [1] [1] 32, 33
 Call Log
 entering[8] [1] [2] 123
 external calls[8] [1] [3]
 121
 options[*] [8] [4] 120
 password[*] [8] [5] 123,
 124
 password[*] [8] [5] 123
 viewing[8] [1] [2] 121
 Call Park[7] [4] 94
 Call Pickup[7] [6] 36
 Call Queuing[8] [0] [1] 88
 Call Transfer
 canceling[#] [7] [0] 91
 using[7] [0] 42, 89
 Camp-on[8] [2] 92
 Class of Service[6] [8] 204
 Conference Call
 M7100 telephone[#] [3]
 40, 41
 using[3] 39, 41, 42
 Contrast Adjustment[*] [7]
 128
 Custom Call
 Routing[*] [8] [3] [2] 66,
 188
 Dialing Modes[*] [8] [2] 55
 Directed Pickup[7] [6] 35
 Do Not Disturb
 canceling[#] [8] [5] 162
 turning on[8] [5] 56, 162

Exclusive Hold[7] [9] 88
 Feature Button
 erasing[*] [1] 129
 programming[*] [3] 129
 [6] [2] Page 133
 Group Listening
 canceling[#] [8] [0] [2] 43
 using[8] [0] [2] 43
 Hide message
 display[*] [8] [0] [6] 137
 Host System Dialing Signals
 Link[7] [1] 196
 Long Tones[8] [0] [8] 198
 Pause[7] [8] 197
 Programmed
 Release[*] [8] [9] 198
 Run/Stop[*] [9] 199
 Wait for Dial
 Tone[8] [0] [4] 199
 Language
 English[*] [5] [0] [1] 128
 French[*] [5] [0] [2] 128
 Spanish[*] [5] [0] [3] 128
 Last Number Redial[5] 80
 Line Button,
 moving[*] [8] [1] 135
 Line Pool Access[6] [4] 54
 Line Redirection
 canceling[#] [8] [4] 103
 using[8] [4] 102
 Message
 canceling[#] [1] 113
 sending[1] 113
 viewing ones you sent[1]
 115
 viewing[6] [5] 113
 Page
 combined zone[6] [3] 109
 external zone[6] [2] 109
 internal zone[6] [1] 109
 using[6] [0] 94, 95, 109

Password

Basic **[B] [A] [S] [I] [C]** 13,
188

Call Log **[*] [8] [5]** 123,
124

System

Coordinator **[A] [D] [M] [I]**
[N] 11, 13, 16, 18, 19,
20, 21, 22, 23, 24, 25,
188

Priority Call **[6] [9]** 57

Privacy **[8] [3]** 48

Restriction Service

turning off **# [8] [7] [2]**
184

turning on **[8] [7] [2]** 184

Ring Again

canceled **# [2]** 59
using **[2]** 59

Ring Type **[*] [6]** 136

Ring Volume **[*] [8] [0]** 137

Ringing Service

turning off **# [8] [7] [1]**
184

turning on **[8] [7] [1]** 184

Routing Service

turning off **# [8] [7] [3]**
184

turning on **[8] [7] [3]** 184

Saved Number Redial **[6] [7]**

84

Services, viewing **[8] [7] [0]**

185

Speed Dial

adding user **[*] [4]** 82
making calls **[0]** 82

Static Time and

Date **[8] [0] [6]** 116

System Answer, Custom

Call Routing, recording a
greeting **[*] [8] [3] [3]** 74, 76

System Answer **[*] [8] [3] [1]**
65, 188

Testing

display **[8] [0] [5]** 212

power supply **[8] [0] [5]**
214

telephone

buttons **[8] [0] [5]** 213

telephone

handset **[8] [0] [5]** 213

telephone

headset **[8] [0] [5]** 213

telephone

speaker **[8] [0] [5]** 214

Time and

Date **[*] [*] [T] [I] [M] [E]** 13,
188

Trunk Answer **[8] [0] [0]** 38

User Preferences **[*] [*]**

[U] [S] [E] [R] 139, 188

Voice Call Deny

canceled **# [8] [8]** 117

using **[8] [8]** 117

Voice Call **[6] [6]** 117

F. 130

fast busy tone 203

fax machine, and I-ATA 170–
171

Feature button 5

Feature code 130

Feature moved 130

Feature timeout 215

Features

adjusting ring volume 137

Autobumping 121

autodial 77

auxiliary ringer 195

- Background Music 163
 - Button Inquiry 127
 - Call Display 32
 - Call Duration Timer 49
 - Call Forward 97
 - Call Information 32
 - Call Log 119
 - Call Park 94
 - Call Pickup 35
 - Call Queuing 88
 - Call Transfer 89
 - Callback 96
 - Camp-on 92
 - changing ring type 136
 - Class of Service password 204
 - Conference Calls 39
 - contrast adjustment 128
 - Custom Call Routing 66
 - dialing modes 55
 - dialing signal
 - Link 196
 - Long Tones 198
 - Pause 197
 - Programmed Release 198
 - run/stop 199
 - Wait for Dial Tone 199
 - Do Not Disturb 162
 - Do Not Disturb on Busy 100
 - Exclusive Hold 88
 - Handsfree 44
 - hiding the message or calls display 137
 - Hold 87
 - language choice 128
 - Last Number Redial 80
 - line pools 54
 - Line Redirection 101–107
 - Messages 112
 - moving line buttons 135
 - paging 109–112
 - priority call 57
 - Privacy 48
 - Restriction service 181
 - Ring Again 59
 - ring type 136
 - Ring service 181
 - Routing service 181
 - Saved Number Redial 84
 - sending messages using display 112
 - Set Lock 194
 - Speed Dial 81
 - System Answer 65
 - Test a Telephone 211–214
 - Time and Date 188
 - Trunk Answer 37
 - User Preferences 139
 - Voice Call 117
 - Voice Call Deny 117
 - features
 - Group Listening 43
 - file transfer 178
 - Flash (feature) 196
 - Forward denied 101
 - Forward> 101
 - forwarding calls 21
 - Call Forward 97
 - Call Forward delay 99
 - Call Forward on Busy 99
 - Do Not Disturb on Busy 100
 - Forward no answer 98
 - Line Redirection 101–107
- ## G
-
- Get call first 95
 - greetings, Auto Attendant

- changing the language 67
- Custom Call Routing 62
- customizing 71
- pre-recorded 70
- recording 73
- Group 4 fax 178
- Group Listening 43
- Group Pickup 36

H

- handling many calls at once
 - Call Queuing 88
 - Hold 87
- handset
 - testing 213
- handset speaker
 - testing 214
- Handsfree
 - making calls 44
 - muting 44, 47
- Handsfree Answerback
 - programming 47
 - Voice Call 117
- Heading 7
- headset
 - Handsfree requirement 47
 - testing 213
- hearing aid compatibility 31
- Hidden number 52, 81, 85
- Hold
 - ATA feature code 167
 - automatic 87
 - button 5
 - Conference Call 41
 - exclusive 88
 - listening while on hold 87
 - retrieving call 87
- Hold or release 125
- Hold or release 217
- host system signaling
 - Link 196
 - Pause 197
 - Programmed Release 198
 - run/stop 199
 - Wait for Dial Tone 199
- Hotline
 - bypassing 192
 - setting up the telephone 192
- Hunt Groups 23, 24, 26, 27, 36, 38, 57, 59, 61, 87, 95, 97, 98, 99, 100, 110, 116, 147, 163, 192, 205
 - adding or removing members 149
- Answering incoming calls 27
- assigning and unassigning lines 151
- Broadcast mode 152
- moving members 150
- programming busy line
 - setting 154
- programming the overflow
 - set 156
- programming the queue
 - time-out 155
- Rotary mode 152
- Sequential mode 152
- setting the distribution mode 152
- setting the hunt delay 153
- setting the name 157

I

- I-ATA (see analog terminal adapter, internal 164)
- In use 115

- In use 218
- In use SETNAME 125
- Inactive feature 215
- Incoming Line Groups (ILG) 147
- Incoming only 218
- installer programming 2, 11
- integrated services digital network (see ISDN) 173
- Intercom 104
- Intercom # 79
- internal analog terminal adapter (see analog terminal adapter, internal) 164
- internal numbers
 - length of 205
- internal page 109
- Internet access 179
- Invalid code 83, 200
- Invalid code 215
- Invalid location 135
- Invalid number 79, 91, 95
- Invalid number 218
- Invalid Password 204
- Invalid zone 111
- ISDN
 - applications 177–179
 - capacity 173
 - equipment 177–179
 - Internet access 179

L

- LAN access 178
- LAN bridge 178
- LAN router 178
- language
 - changing on the display 128, 143
 - choice for Auto Attendant 67

- Last Number Redial
 - programming 80
- Last Number Redial (ATA feature code) 167
- Last Number Redial, using 80
- leased line backup 178
- length of call, timing 49
- length of internal numbers 205
- letters, entering with dial pad 18
- limiting
 - access to Norstar 201
 - telephone feature use 194
 - telephone programming 194
 - using alternate or scheduled services 181
- line
 - changing the name 20
 - target 206
- Line 001 waiting 216
- line assignment 206
- line button
 - moving 28, 135
 - using to choose a line 53
- Line denied 38, 52
- Line denied 218
- Line hung up 93
- Line in use 218
- line indicators
 - description 28
- line pool 54–55, 207
- line pool and ATA 167
- Line Redirection 101–107
- Line Redirection 104
- Line Redirection and Call Forward, differences 106
- line, changing the name 161
- Line001 callback 29
- Line001 hung up 91
- Line001 to Prime 29

Line001 transfer 216

Link

ATA feature code 167

using 196

Link, programming 196

LIST 142

listening on hold 87

log space

programming 124

logging a call manually 120

Logit (see Call Log)

long distance call

indicator 215

long distance calls, using COS

password 200

Long Tones 198

Long Tones 198

Lunch Sched 187

M

M7100 telephone 78

button defaults 132

Button Inquiry 127

Call Conference 39

Call Park 94

Call Queuing 216

Call Transfer 91

CallBack 93

camping a call 93

Conference Call 41

Conference Call on hold 41

Hold 87

Incoming Line Group button
28, 53

internal numbers 205

line assignment 206

line buttons 207

Line Redirection 102

memory buttons 208

one-line display 208

Ring Again 216, 217

Speed Dial 82

standard dial 56

Transferring a call 91

Voice Call 117

M7208 telephone

button defaults 133

Conference Call 40

memory buttons 208

one-line display 208

splitting a Conference Call
41

M7310 telephone 3, 5

button defaults 133

Conference Call 40

memory buttons 208

splitting a Conference Call
41

troubleshooting 211

M7324 telephone 3, 5

button defaults 134

central answering position
29

Conference Call 40

memory buttons 208

splitting a Conference Call
41

troubleshooting 211

maintaining security 202

Make calls first 218

making calls

dialing modes 55

priority call 57

using a line button 53

using line pools 54

using Ring Again 59

with automatic Handsfree 46

memory buttons 5, 77, 208
 Message denied 115
 Message list 115
 Message to 115
 Messages
 ATA feature code 167
 cancelling a sent message 113
 hiding display 137
 removing from list 114
 sending 112
 sending using the display 112
 viewing 113
 Messages & Calls 116, 125
 Microphone muted 118
 modem, and I-ATA 170–171
 monitoring
 calls 38, 206
 line pool status 59
 lines (see also Disconnect Supervision) 205
 telephone status 59
 transferred calls 96
 mounting telephones on wall 209
 Move line from 135
 Move line to 135
 moving
 telephones 161
 music, background 163
 muting voice call tones 117

N

names
 spelling out 17
 New calls begin 125
 Next 7

night control phone (see control telephone)
 Night Sched 187
 Night Service (see Services)
 9. 51
 9. 218
 No button free 116
 No button free 218
 No call on 95
 No calls waiting 216
 No free lines 218
 No info to log 126
 No last number 52, 81
 No line selected 52
 No line selected 216, 218
 No line to use 105
 No log assigned 126
 No number saved 85
 No number stored 83, 116
 No resume item 126
 No services ON 186
 No voice call 118
 Norstar system dial tone 203
 Not available 215
 Not in service 53, 91, 93, 101
 Not in service 217
 numbers, entering with dial pad 18

O

OK 209
 On another call 53, 58
 On hold 88
 one button access to features 31
 one button dialing (see Autodial)
 Outgoing line 105
 overflow call routing 207

OVERRIDE 209

overriding

Call Forward 98

P

page

ATA feature code 168

external equipment 112

programming 110

shortcut codes 109

types 109

zones, programming 110

Page choice 111

Page timeout 111

Paging ALL 111

Paging busy 112

Park denied 95

Parked call 217

Parked on 95

parking a call

retrieving 94

Parking full 96

password

Basic 139, 188

Call Log 123–124

changing 187

Class of Service 203

clearing Call Log 190

System Coordinator 187,
188

User Preferences 139

Pause 197

ATA feature code 168

pause in a sequence of numbers
(see Wait for Dial Tone)

personal programming 2

Pick up receiver 217

Pickup 37

Pickup denied 37, 38

pickup group 36

Please wait 58

Pool code 105

power supply

testing 214

pre-dial 56

Press a button 79, 127, 130

Press a line 136

Press held line 43

prime line 193, 209

prime telephone 29

priority call

ATA feature code 168

priority call (see also Call
Queuing) 57

Priority denied 58

Priority>223 217

Privacy

ATA feature code 168

changing status 48

private branch exchange,

accessing from Norstar (see
also host system dialing
signals) 196

private call 48

private line 209

Program and HOLD 79, 83, 130

Program and OK 79, 83, 130

Programmed 79

Programmed Release 198

programming

system features

Call Forward 21, 24

changing the name of a
line 20changing the name of a
telephone 18

System Speed Dial 15

- time and date 13
- telephones
 - Call Forward 21, 24
 - changing number of rings
 - before forwarding call 22
 - changing the name of a telephone 18
 - Do Not Disturb on Busy 24
- programming basics
 - administration programming 2
 - Basic password 2
 - customizing your Norstar 2
 - entering passwords 11
 - installer programming 2
 - personal programming 2
 - programming indicator◀ 7
 - programming indicator▶ 7
 - programming map 7, 9–11
 - programming overlay 6
 - recording changes 1
 - starting and ending a session 11
 - understanding programming 1
- programming lines
 - changing the name of a line 161
- programming system features
 - adding or removing telephones from Custom Call Routing groups 69
 - attendant telephone 66
 - changing the language used by System Answer and Custom Call Routing 67
 - changing the number of rings for Custom Call Routing 68
 - changing the number of rings for System Answer 68
 - Restriction service 181, 182
 - Ringling service 181
 - Routing service 181
 - System Speed Dial 81
- programming telephones
 - allowing Line Redirection 103
 - auxiliary ringer 195
 - Call Display 34
 - Call Forward delay 99
 - Call Pickup 35
 - changing the name of a telephone 161
 - direct-dial telephones 191
 - Do Not Disturb 162
 - external autodial button 77
 - Forward no answer 98
 - Forward on busy 99
 - Handsfree 46
 - HF Answerback 47
 - Hotline 192
 - Last Number Redial 80
 - Link 196
 - page zone 110
 - paging 110
 - priority call 57
 - Redirect ring 104
 - Saved Number Redial 84
 - Set lock 194
 - User Speed Dial 81, 82

Q

QUIT 209

R

recording programming 1
redialing
 external number 80
Redir by 105
Redirect ring
 programming 104
Redirect denied 105
redirection loops 107
refusing to answer second call
 162
Release a call 93
Release a call 217
Release button 5, 31
Release calls 217
releasing
 from conference 42
releasing a call
 accidentally 49
remote access 200–203
remote use
 Class of Service password
 203
 security 201
 using lines and features
 from outside the system
 200
replying to a message 114
reporting and recording alarms
 211
Restr'n 186
Restricted call 53, 92
Restricted call 219
restricting

 access to Norstar 201
 feature use (see Set Lock)
 telephone feature use 194
 telephone programming 194
 using alternate or scheduled
 services 181
Restriction service 181
retrieval codes
 Call Park 94
retrieving
 held call 87
 parked call 94
ring
 auxiliary ringer 195
 changing ring type 136, 144
 changing the number of
 rings before call is
 forwarded 22
 description of types 28, 136
 ring volume 137
 Ringing service 183
Ring Again 59
Ring Again (ATA feature code)
 168
Ring Again? 53, 59
Ringing 186
Ringing service 181
RLS button 31
Routing 186
routing calls, using Custom Call
 Routing 62
Routing service 181
run/stop signal 199

S

Saved Number Redial
 using 84

- Saved Number Redial,
 - programming 84
- saving a number (see Saved Number redial)
- Sched 4 187
- Sched 5 187
- Sched 6 187
- scheduled services 181
- security
 - recommendations 202
 - system 201
- Select a line 53, 83
- Select line out 105
- Select line(s) 105, 106
- Send message? 53
- Service Modes (see Services)
- Service Modes ON 186
- Service Schedules
 - Evening Sched 187
 - Lunch Sched 187
 - Night Sched 187
 - Sched 4 187
 - Sched 5 187
 - Sched 6 187
- Services
 - overriding 187
 - Restriction service 181
 - Ringing service 181
 - Routing service 181
 - Trunk Answer 37
 - turning off and on using
 - feature codes 184
 - viewing active schedules 185
- Set Lock 194–195
- Set locked 215
- shift button 5
- SHOW 209
- Show 7
- signal
 - Link 196
 - Long Tones 198
 - Pause 197
 - Programmed Release 198
 - run/stop 199
 - Wait for Dial Tone 199
- special telephones 190
- Speed Dial
 - adding or changing 15
 - changing User Speed Dial 142
 - choosing a system code 16
 - choosing the display 17
 - host system signaling codes 81
 - making a call 82
 - programming 15
 - programming User 82
 - selecting a line 17
- splitting a Conference Call 41
- standard dial 56
- Start of list 116
- Still in transfer 92
- stopping calls from ringing at your telephone 162
- stuttered dial tone 203
- suspending a call (see also Call Park and Hold)
- System Answer 61
 - attendant telephone 66
 - customizing 64
 - language choice 67
- system dial tone 203
- System Speed Dial 81
- System Speed Dial (ATA feature code) 169

T

target line 206

 changing the name 161

telecommuting 178

telephone

 alarm 211

 attendant 66

 Call Display information 34

 central answering position
 29, 190

 changing the name 161

 control 184, 194

 difference between M7310
 and M7324 telephones 5

 direct-dial 190

 extra-dial 184, 187, 190

 Hotline 192

 log calls automatically 119

 M7100, illustration 207

 M7310, illustration 3

 M7324, illustration 3

 mounting on wall 209

 moving 161

 prime 190

 prime telephone 29

 testing 211–214

testing

 buttons 212, 213

 Custom Call Routing 76

 display 212

 ending a session 212

 handset 213

 headset 213

 power supply 214

 System Answer 76

 telephone 211

 telephone speaker 214

Their list full 116

3 parties only 42

time and date

 changing 13

 displayed instead of
 messages and calls 137

Feature * * T I M E

13, 188

Feature 8 0 6 116

length of a call 49

time savers

 autodial 77

 Saved Number Redial 84

 Speed Dial 81

Timed Release

 ATA feature code 169

tone

 camped call tones 92

 controlling length 198

 remote access tones 203

 voice call 117

Tones (ATA feature code) 170

tracking incoming calls

 Call Log 119

transfer (see Call Transfer)

Transfer denied 92

transferring calls 89

 Callback 96

 Custom Call Routing 62

 parking a call 94

 using Camp-on 92

transmission rates, with internal

 analog terminal adapter 170

troubleshooting

 internal analog terminal
 adapter 171

 reporting and recording
 alarms 211

 testing the headset 213

 testing the power supply 214

- testing the speaker in the handset 213
- testing the telephone buttons 213
- testing the telephone display 212
- testing the telephone speaker 214
- using the alarm telephone 211

- Trunk Answer 37
- ATA feature code 169, 170

U

- understanding programming 1
- Unequipped line 105
- Unknown name 124
- Unknown number 83
- until * 186
- UPDATE 12
- Use line pool? 217
- User Preferences 139–145
 - | | | | | | | |
|---------|---|---|---|---|---|---|
| Feature | * | * | U | S | E | R |
|---------|---|---|---|---|---|---|
 - 188
- User Speed Dial 81, 142
- using Norstar remotely 200–203
- using this guide 1

V

- videoconferencing 177
- VIEW 209
- viewing
 - active Services 185
 - Call Log 121
 - messages 113, 115
- Voice Call 116–118
- Voice call 118

- voice mail
 - accessing your Norstar system 126
 - using Call Forward 101
- volume
 - bar 209
 - control 209

W

- Wait for Dial Tone 199
- wall mounting telephones 209

Y

- Your list full 116

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